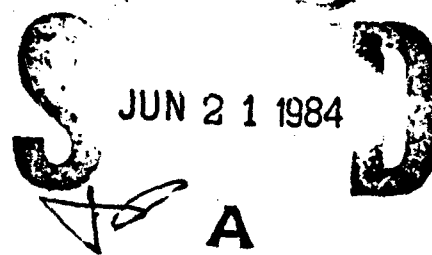


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## PREFACE

This Weapons File has been prepared by AD/XRP to provide unclassified technical data on air launched weapons and munitions. The file is broken into four major categories: Air-to-Air Missiles, Guided Weapons, Unguided Weapons and Submunitions. A more detailed classified Weapons Catalogue is also available which provides performance data.

The data under AIRCRAFT indicates a typical loadout as configured for the Nonnuclear Armament Plan (NAP).

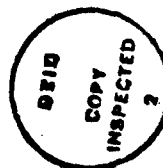
This file has been computerized for easy updating and it is our intent to expand and update this file on an annual basis; therefore, your comments on improvements would be appreciated, and should be directed to Mr Larry Roesler or Mr Lynn Deibler, AD/XRPT, Eglin AFB, FL 32542.

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JUN 21 1984  
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AIR-TO-AIR  
MISSILES

# TARGETS AIRCRAFT

SHORT RANGE

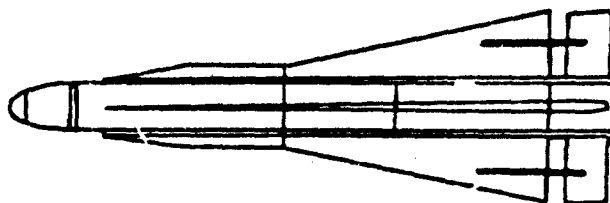
NOMENCLATURE AIM-4G

NAME FALCON

## WEAPON CHARACTERISTICS

WEIGHT-146 Lbs 66 kg  
 LENGTH-82.5 In 184.5 cm  
 DIAMETER-6.64 IN 16.9 CM  
 GUIDANCE-Infrared  
 CONTROLS-TAIL HYDRAULIC  
 AUTOPILOT-ANGLE RATE  
 PROPULSION-BOOST 4420 LBS SUSTAIN 635LBS 53SEC/4.09SEC  
 WARHEAD-BLAST 8.65 LBS  
 FUZE- CONTACT LEADING EDGE OF FINS

## PICTORIAL



## EMPLOYMENT OPTIONS

### AIRCRAFT

F-106  
 F-102

### ENGAGEMENT SYSTEMS

None

### LAUNCHER

LE-6

### LIMITATIONS

70000 FT ALT  
 TARGET SPEED  
 MAX 1.7M

HIT TO KILL

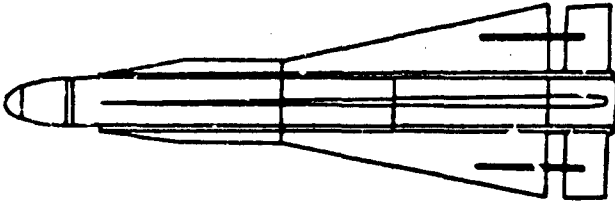
16 SEC  
 REACTION TIME

### PROGRAM MANAGEMENT

CONTRACTOR-HUGHES  
 UNIT COST-  
 STATUS-INVENTORY  
 NEXT EVENT-  
 REFERENCE-JMEM

# TARGETS AIRCRAFT

SHORT RANGE

|  |  |             |
|--|--|-------------|
| NOMENCLATURE AIM-4C  |  | NAME FALCON |
| <b>WEAPON CHARACTERISTICS</b><br>WEIGHT-146 Lbs 66 kg<br>LENGTH-82 5 In 184 5 cm<br>DIAMETER-6 64 IN 16 9 CM<br>GUIDANCE-Infrared<br>CONTROLS-TAIL HYDRAULIC<br>AUTOPILOT-ANGLE RATE<br>PROPULSION-BOOST 4420 LBS SUSTAIN 635LBS 63SEC/4 09SEC<br>WARHEAD-BLAST 8 65 LBS<br>FUZE- CONTACT LEADING EDGE OF FINS |  |             |
| <b>PICTORIAL</b><br>   |  |             |
| <b>EMPLOYMENT OPTIONS</b>  |  |             |
| <b>AIRCRAFT</b><br>F-106<br>F-102  | <b>LIMITATIONS</b><br>70000 FT ALT<br>TARGET SPEED<br>MAX 1 7M |             |
| <b>ENGAGEMENT SYSTEMS</b><br>None  | HIT TO KILL  |             |
| <b>LAUNCHER</b><br>IE-6  | 16 SEC<br>REACTION TIME  |             |
| <b>PROGRAM MANAGEMENT</b><br>CONTRACTOR-HUGHES<br>UNIT COST-<br>STATUS-INVENTORY<br>NEXT EVENT-<br>REFERENCE-JMEN  |  |             |



TARGETS AIRCRAFT

MEDIUM RANGE

NOMENCLATURE AIM-7E-2

NAME SPARROW

**WEAPON CHARACTERISTICS**

WEIGHT-427 Lbs

LENGTH-145 in

DIAMETER-8 in.

GUIDANCE-Semi-active radar & HOJ

CONTROLS-Wing (hydraulic)

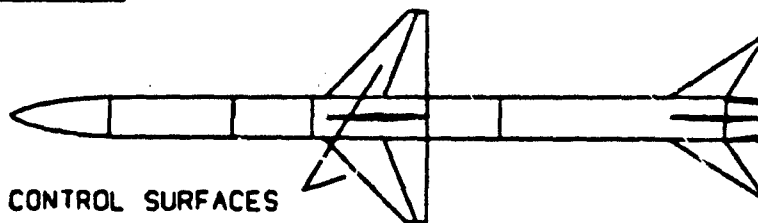
AUTOPILOT-Roll rate

PROPULSION-Boost 7,600 Lbs 2.9 sec

WARHEAD-Expanding rod 66.8 Lbs MK38

FUZE-Proximity RF & contact

**PICTORIAL**



**EMPLOYMENT OPTIONS**

**AIRCRAFT**

F-4  
F-15  
F-14

**LIMITATIONS**

LAUNCH MACH 0.7-2.2  
MAX TGT SPEED MACH 2.2  
LAUNCH ALT 25-40,000 FT  
MAX TOF 40 SEC

**LAUNCHER**

AERO-7A  
LAU-105/A

**ENGAGEMENT SYSTEM**

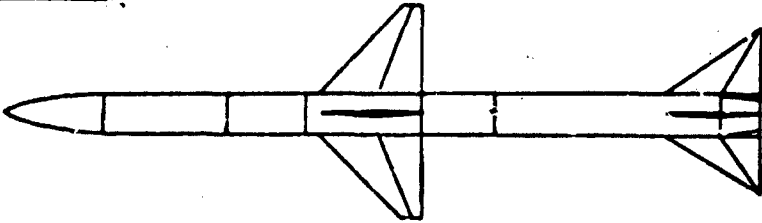
AVC-9

**PROGRAM MANAGEMENT**

CONTRACTOR-NAVY (RAYTHEON)  
UNIT COST-  
STATUS-INVENTORY  
NEXT EVENT-  
REFERENCE-JHEM

TARGETS AIRCRAFT

MEDIUM RANGE

|   |  |   |
|---|--|---|
| NOMENCLATURE    AIM-7F  |  | NAME SPARROW  |
| WEAPON CHARACTERISTICS  |  |   |
| WEIGHT-514 Lbs<br>LENGTH-145 In<br>DIAMETER-8 In<br>GUIDANCE-Semi-active radar & HOJ<br>CONTROLS-Wing (hydraulic)<br>AUTOPILOT-Roll rate<br>PROPULSION-Boost 5750 Lbs 4 sec sustain 1016 Lbs 11 sec<br>WARHEAD-Continuous rod 84 Lbs<br>FUZE-Proximity RF & contact |  |   |
| PICTORIAL   |  |   |
|    |  |   |
| EMPLOYMENT OPTIONS  |  |   |
| AIRCRAFT<br>F-4    (4)<br>F-15 (4)<br>F-14 (4)  |  | LIMITATIONS<br>LAUNCH MACH 0.7-2.5<br>MAX TGT SPEED MACH 2.2<br>LAUNCH ALT 25-40KFT |
| LAUNCHER<br>AERO-7A<br>LAU-106/A  |  |   |
| ENGAGEMENT SYSTEMS<br>AWG-9   |  |   |
| PROGRAM MANAGEMENT<br>CONTRACTOR-NAVY (RAYTHEON & GENERAL DYNAMICS)<br>UNIT COST-\$52,500<br>STATUS-INVENTORY<br>NEXT EVENT-<br>REFERENCE-JMEM  |  |   |

# TARGETS AIRCRAFT

MEDIUM RANGE

NOMENCLATURE AIM -7M

NAME SPARROW

## WEAPON CHARACTERISTICS

WEIGHT-514 Lbs

LENGTH-145 In

DIAMETER-8 In

GUIDANCE-Semi-active monopulse radar & HOJ

CONTROLS-Wing (hydraulic)

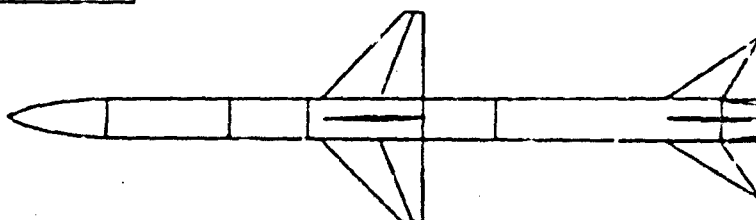
AUTOPILOT-Roll rate

PROPULSION-Boost 5750 Lbs 4.5 sec sustain 1010 Lbs 11 sec

WARHEAD-Continuous rod 84 Lbs

FUZE-Proximity RF & contact

## PICTORIAL



## EMPLOYMENT OPTIONS

### AIRCRAFT

F-4 (4)

F-15 (4)

F-14 (4)

### LIMITATIONS

LAUNCH MACH 0.7-2.5

MAX TGT. SPEED MACH 2.2

LAUNCH ALT 25-40KFT

### LAUNCHER

AERO-7A

LAU-100/A

### ENGAGEMENT SYSTEMS

AVC-9

### PROGRAM MANAGEMENT

CONTRACTOR-NAVY (RAYTHEON)

UNIT COST-073,300

STATUS-INVENTORY

NEXT EVENT-

REFERENCE-JREN

TARGETS AIRCRAFT

SHORT RANGE

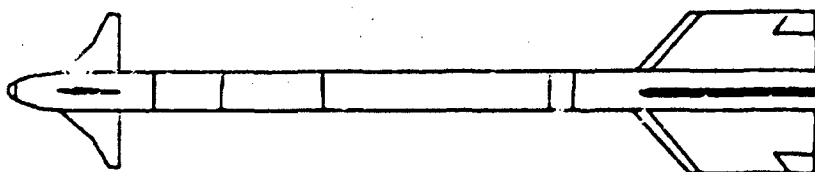
NOMENCLATURE AIM-9L

NAME SIDEWINDER

**WEAPON CHARACTERISTICS**

WEIGHT- 191 lbs  
 LENGTH- 113 in  
 DIAMETER- 5 in  
 GUIDANCE- IR InSb detector  
 CONTROLS- Canard torque balanced  
 AUTOPILOT- none  
 PROPULSION- Boost 2660 lbs thrust  
 WARHEAD- Annular blast frg 20 8 lbs  
 FUZE- Contact and active optical

**PICTORIAL**



**EMPLOYMENT OPTIONS**

**AIRCRAFT**

F-16  
 F-15  
 F-4  
 F-14  
 F-5  
 A-10

**LIMITATIONS**

Does not  
 limit F-16  
 capability

**LAUNCHER**

AERO-3/B

**PROGRAM MANAGEMENT**

CONTRACTOR- NAVY (RAYTHEON & FORD)  
 UNIT COST- \$39,300  
 STATUS- INVENTORY  
 NEXT EVENT-  
 REFERENCE- JMEM

# TARGETS AIRCRAFT

SHORT RANGE

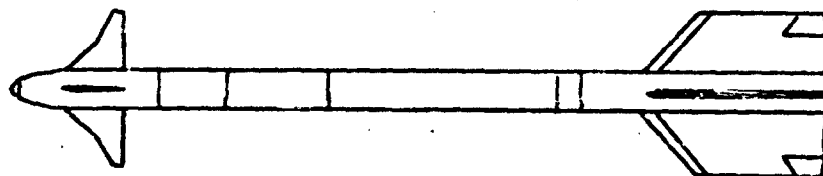
NOMENCLATURE AIM-9M

NAME SIDEWINDER

## WEAPON CHARACTERISTICS

WEIGHT- 191 lbs  
 LENGTH- 113 in  
 DIAMETER- 5 in  
 GUIDANCE- IR InSb detector  
 CONTROLS- Canard torque balanced  
 AUTOPILOT- none  
 PROPULSION- Boost 2660 lbs thrust Low smoke  
 WARHEAD- Annular blast frg 20 8 lbs  
 FUZE- Contact and active optical

## PICTORIAL



## EMPLOYMENT OPTIONS

### AIRCRAFT

F-16  
 F-15  
 F-4  
 F-14  
 F-5  
 A-10

### LIMITATIONS

Does not  
 limit F-16  
 capability

### LAUNCHER

AERO-3/B  
 LAU-114/A

### PROGRAM MANAGEMENT

CONTRACTOR- NAVY (RAYTHEON & FORD)  
 UNIT COST- \$88,833  
 STATUS- INVENTORY  
 NEXT EVENT-  
 REFERENCE- JMEM

TARGETS AIRCRAFT

LONG RANGE

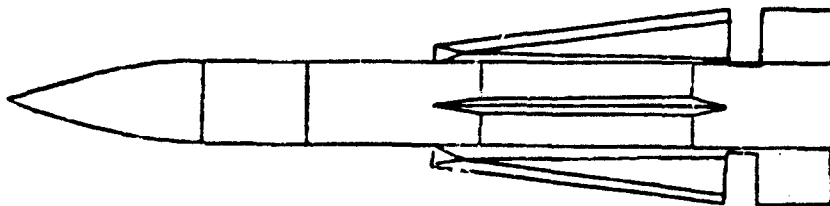
NOMENCLATURE AIM-54

NAME PHOENIX

WEAPON CHARACTERISTICS

WEIGHT-987 Lbs  
LENGTH-158 In  
DIAMETER-15 In  
GUIDANCE-Active and semi-active radar  
CONTROLS-Tail (hydraulic)  
AUTOPILOT-3 axis rate  
PROPULSION-Boost 4000 Lbs 30 sec  
WARHEAD-Continuous rod 133 Lbs  
FUZE-Proximity and contact

PICTORIAL



EMPLOYMENT OPTIONS

AIRCRAFT

F-14 (4)

ENGAGEMENT SYSTEM

AWG-9 RADAR

LIMITATIONS

LAUNCH 1.0-2.5 MACH  
SEA LEVEL TO 80,000 FT.  
MAX TARGET SPEED MACH 4.2

LAUNCHER

MAU-83A OR 84A

PROGRAM MANAGEMENT

CONTRACTOR-NAVY (HUGHES)

UNIT COST-

STATUS-INVENTORY

NEXT EVENT-

REFERENCE-JMEM

TARGETS AIRCRAFT

MEDIUM RANGE

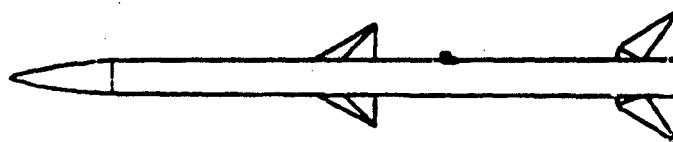
NOMENCLATURE AIM-120

NAME AMRAAM

**WEAPON CHARACTERISTICS**

WEIGHT- 329 LBS.  
 LENGTH- 144 IN  
 DIAMETER-7 IN  
 GUIDANCE-[Inertial]/Command [inertial] and active radar  
 CONTROLS-Tail  
 AUTOPILOT-3 AXIS ACCELERATION  
 PROPULSION-Boost Sustain reduced smoke  
 WARHEAD- 49 LBS FRAG  
 FUZE- RF

**PICTORIAL**



**EMPLOYMENT OPTIONS**

**AIRCRAFT**

F-15  
 F-16  
 F-14  
 F-18  
 TORONADO

**LAUNCHER**

NEW RAIL LAUNCHER  
 MODIFIED EJECT LAUNCHER

**ENGAGEMENT SYSTEMS**

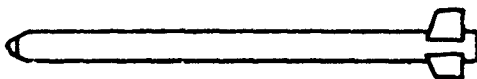
A/C RADAR  
 INERTIAL SYSTEM

**PROGRAM MANAGEMENT**

CONTRACTOR-HUGHES  
 UNIT COST-  
 STATUS- FSO  
 NEXT EVENT-PREPRODUCTION - 1985  
 REFERENCE-YM MR. MCCARTHY 872-2848

# TARGETS AIRCRAFT

# SHORT RANGE

|   |  |             |
|---|--|-------------|
| NOMENCLATURE  |  | NAME ASRAAM |
| WEAPON CHARACTERISTICS  |  |             |
| WEIGHT- 130 LBS<br>LENGTH- 90 IN<br>DIAMETER- 7 IN<br>GUIDANCE- IR<br>CONTROLS- TAIL<br>AUTOPILOT- TBD<br>PROPULSION- BOOST SUSTAIN<br>WARHEAD- BLAST FRAG<br>FUZE- CONTACT / PROX. |  |             |
| PICTORIAL   |  |             |
|    |  |             |
| EMPLOYMENT OPTIONS  |  |             |
| AIRCRAFT<br>F-15<br>F-16<br>F-18<br>TORONADO<br>ATF   |  |             |
| LAUNCHER<br>AIM-9L OR AIM-120 COMPATABLE  |  |             |
| ENGAGEMENT SYSTEMS<br>HUD<br>HELMET MOUNTED DISPLAY   |  |             |
| PROGRAM MANAGEMENT<br>CONTRACTOR- U K. AND FRG<br>UNIT COST-<br>STATUS-<br>NEXT EVENT- ENGINEERING DEV 1995<br>REFERENCE- MAJ MCMULLAN AV 872-0110                                  |  |             |



# TARGETS AIRCRAFT

LONG RANGE

## NOMENCLATURE

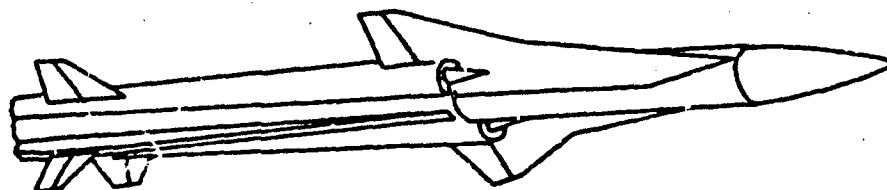
NAME EMRAAT

## WEAPON CHARACTERISTICS

WEIGHT-325 Lbs  
 LENGTH-144 IN  
 DIAMETER-7 In  
 GUIDANCE-Passive-active all weather seeker (PAAS)  
 CONTROLS-Tail electric actuators  
 AUTOPILOT-3 axis accel adaptive digital  
 PROPULSION-Boost 10,000 Lbs 2sec sustain 50-1000 Lbs 100 sec  
 WARHEAD-40-50 Lbs SAW/Self-forging frag aimed elliptical  
 FUZE-Active RF/IR adaptive, seeker integrated

Propulsion is ducted rocket or ramjet

## PICTORIAL



## EMPLOYMENT OPTIONS

### AIRCRAFT

F-15  
 F-14  
 NATO  
 F-16

### LAUNCHER

AMRAAM LAUNCHERS

### ENGAGEMENT SYSTEM

IRST  
 FCS/TWS (3RD PARTY FCS)  
 DATA LINK (AMRAAM) JTIDS  
 ECM/EW TRACK SYSTEM

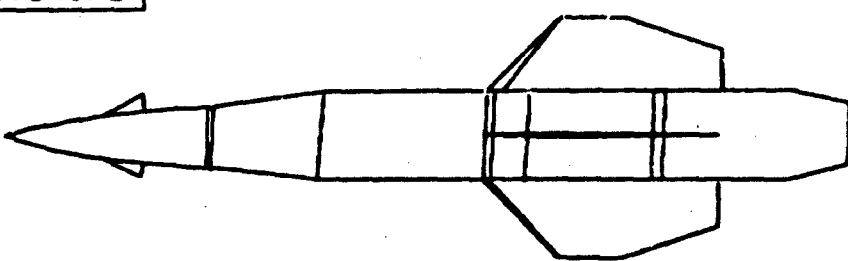
### PROGRAM MANAGEMENT

CONTRACTOR-VOUGHT  
 UNIT COST-AIM-120 + \$20K  
 STATUS-CONCEPT DEVELOPMENT  
 NEXT EVENT-TECH DEMO 1986-1989  
 REFERENCE-MR. BUTLER 872-2088

# GUIDED WEAPONS

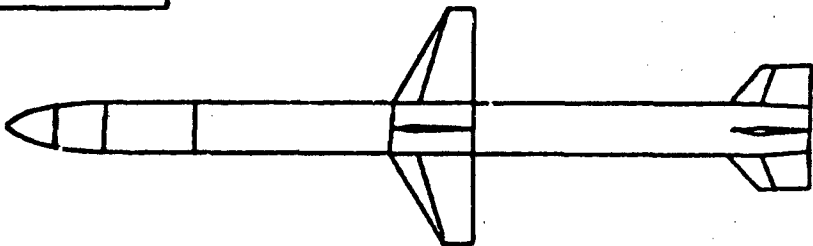
TARGETS HARD FIXED

SHORT RANGE

|  |         |      |          |
|--|---------|------|----------|
| NOMENCLATURE   | AGM-12C | NAME | BULL PUP |
| <b>WEAPON CHARACTERISTICS</b>  |         |      |          |
| WEIGHT-1789lb<br>LENGTH-160 8in<br>DIAMETER-17 3in<br>GUIDANCE-PILOT VISUAL TRACK, VHF DL STEERING COMMAND<br>CONTROLS- PNEUMATIC OPERATED CANARDS<br>AUTOPILOT-ROLL REFERENCE CYRO<br>PROPULSION-67,200 lb-sec<br>WARHEAD-974lb blast frag<br>FUZE- SELECTABLE IMPACT DELAY OR PROX |         |      |          |
| <b>PICTORIAL</b>   |         |      |          |
|   |         |      |          |
| <b>EMPLOYMENT OPTIONS</b>  |         |      |          |
| AIRCRAFT<br>F-4  |         |      |          |
| ENGAGEMENT SYSTEMS<br>JOY STICK<br>DATA LINK   |         |      |          |
| LIMITATIONS<br>STRAIGHT AND LEVEL DELIVERY   |         |      |          |
| PROGRAM MANAGEMENT<br>CONTRACTOR-MARTIN/THIOL<br>UNIT COST-<br>STATUS-INVENTORY<br>NEXT EVENT-<br>REFERENCE-JMEM   |         |      |          |

# TARGETS RADAR EMITTERS

MEDIUM RANGE

|  |  |   |
|--|--|---|
| NOMENCLATURE. AGM-45   |  | NAME SHRIKE   |
| <b>WEAPON CHARACTERISTICS</b><br>WEIGHT- 400lbs 181kg.<br>LENGTH- 120in 304 8cm.<br>DIAMETER- 8in 18 3cm<br>GUIDANCE- passive RF, onirradiation<br>CONTROLS- wing, hot gas<br>AUTOPILOT- angle rate roll stabilized<br>PROPULSION- boost 7000lbs sustain 10,450lbs<br>WARHEAD- 151 Lbs patterned frag. MK 52, 68, 69<br>FUZE- proximity and contact MK 338 & MK 44 |  |   |
| <b>PICTORIAL</b><br>   |  |   |
| <b>EMPLOYMENT OPTIONS</b>  |  |   |
| <b>AIRCRAFT</b><br>F-4 (4)<br>F-15 (4)<br>F-16<br>A-7<br>A-10<br>B-52<br>F-105 (4)   |  | <b>LIMITATIONS</b><br>SUSCEPTABLE TO<br>RADAR SHUTDOWN<br><br><b>LAUNCHERS</b><br>LAU-31/A<br>AERO-5A-1 |
| <b>ENGAGEMENT SYSTEMS</b><br>Audio control panel<br>Altitude indicator<br>APR-38   |  |   |
| <b>PROGRAM MANAGEMENT</b><br>CONTRACTOR- TEXAS INSTRUMENTS<br>UNIT COST- \$20,000<br>STATUS- INVENTORY<br>NEXT EVENT-<br>REFERENCE- JMEM 3-23  |  |   |

TARGETS HARD FIXED

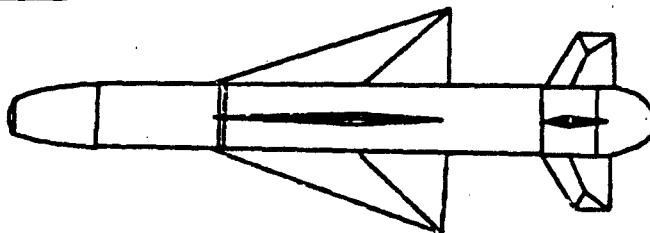
MEDIUM RANGE

|              |             |      |        |
|--------------|-------------|------|--------|
| NOMENCLATURE | ACM-53A-1/2 | NAME | CONDOR |
|--------------|-------------|------|--------|

**WEAPON CHARACTERISTICS**

WEIGHT- 2130lb  
LENGTH- 166/175 5in  
DIAMETER-17in  
GUIDANCE-EO WITH DATA LINK  
CONTROLS-TAIL  
AUTOPILOT-3 AXIS ACC  
PROPULSION-BOOST 880lb (170sec)  
WARHEAD- 650lb WDU-7/B  
FUZE-MK 383 MOD 0 IMPACT OR 14msec DELAY

**PICTORIAL**



**EMPLOYMENT OPTIONS**

**AIRCRAFT**

A-6E

**LAUNCHER**

AERO 7A-R

MAUSA/A

**ENGAGEMENT SYSTEMS**

CONTROL POD

**PROGRAM MANAGEMENT**

CONTRACTOR-ROCKWELL

UNIT COST- \$200,000 (FY77)

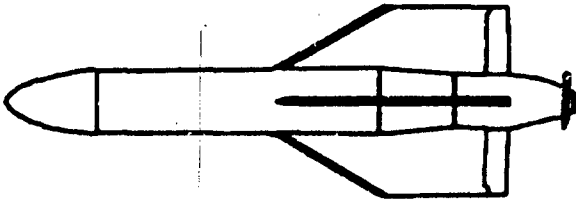
STATUS-TERMINATED IN VALIDATION

NEXT EVENT-

REFERENCE- JMEM

TARGETS SHIPS

LONG RANGE

|  |  |         |                  |
|--|--|---------|------------------|
| NOMENCLATURE   |  | AGM 62B | NAME: WALLEYE II |
| <b>WEAPON CHARACTERISTICS</b>  |  |         |                  |
| WEIGHT-2340lb<br>LENGTH-158in<br>DIAMETER-18in<br>GUIDANCE-EO CONTRAST TRACKER /DATA LINK<br>CONTROLS-TAIL (HYDRAULIC)<br>AUTOPILOT-ROLL CONTROL<br>PROPULSION-NONE<br>WARHEAD-2015lb LINEAR SHAPED CHARGE M58<br>FUZE-CONTACT WITH DELAY (35msec) |  |         |                  |
| <b>PICTORIAL</b>   |  |         |                  |
|    |  |         |                  |
| <b>EMPLOYMENT OPTIONS</b>  |  |         |                  |
| AIRCRAFT<br>F-4 (4)<br>A-7 (4) A-4 (4)   |  |         |                  |
| LAUNCHER<br>PYLON MOUNTED MAU-12A/B  |  |         |                  |
| ENGAGEMENT SYSTEMS<br>RADAR SCOPE  |  |         |                  |
| LIMITATIONS<br>LAUNCH 3450mph--0.95M   |  |         |                  |
| PROGRAM MANAGEMENT<br>CONTRACTOR-MARTIN MARETTA<br>UNIT COST-<br>STATUS- INVENTORY<br>NEXT EVENT-<br>REFERENCE- JMEM   |  |         |                  |

TARGETS ARMOR

SHORT RANGE

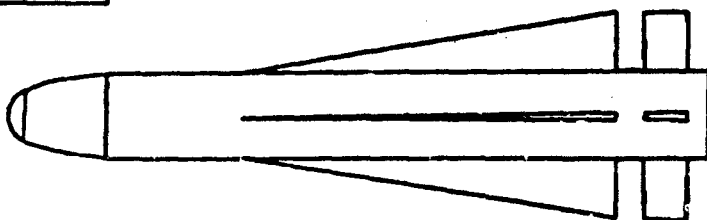
NOMENCLATURE: AGM-85A/B

NAME: MAVERICK

**WEAPON CHARACTERISTICS**

WEIGHT- 465 LBS  
LENGTH- 97 7/8 in  
DIAMETER- 12 IN  
GUIDANCE- TV  
CONTROLS- TAIL  
AUTOPILOT- PURSUIT  
PROPULSION- BOOST SUSTAIN  
WARHEAD- SHAPED CHARGE 125 LBS  
FUZE- CONTACT

**PICTORIAL**



**EMPLOYMENT OPTIONS**

**AIRCRAFT**

F-4  
A-7  
A-10  
F-16

**LIMITATIONS**

MACH 5-1.5  
BELOW 33 KFT

LAUNCHER  
LAU-88A

**ENGAGEMENT SYSTEMS**

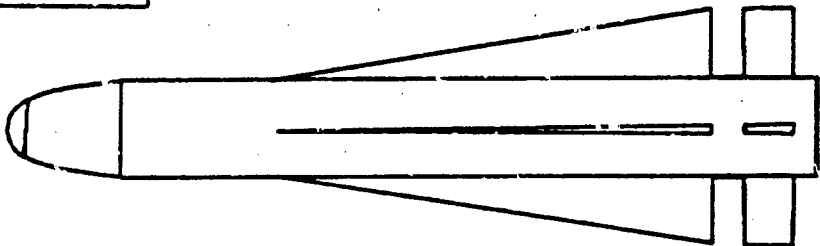
TV DISPLAY  
JOY STICK

**PROGRAM MANAGEMENT**

CONTRACTOR- HUGHES  
UNIT COST- \$17,000  
STATUS- INVENTORY  
NEXT EVENT-  
REFERENCE- JHEM

TARGETS - ARMOR

SHORT RANGE

|  |         |          |          |
|--|---------|----------|----------|
| NOMENCLATURE   | AGM-65D | NAME     | MAVERICK |
| WEAPON CHARACTERISTICS   |         |          |          |
| WEIGHT- 485 LBS<br>LENGTH- 97 7in<br>DIAMETER-12IN<br>GUIDANCE-IR<br>CONTROLS-TAIL<br>AUTOPILOT-ROLL STABILIZED 3 AXIS<br>PROPULSION-BOOST SUSTAIN<br>WARHEAD- SHAPED CHARGE 125LBS<br>FUZE- CONTACT |         |          |          |
| PICTORIAL  |         |          |          |
|   |         |          |          |
| EMPLOYMENT OPTIONS   |         |          |          |
| AIRCRAFT   |         | LAUNCHER |          |
| F-4 (4) F-15 (4)   |         | LAU-88A  |          |
| A-7 (4)  |         | LAU-117A |          |
| A-10 (4)   |         |          |          |
| F-16 (4)   |         |          |          |
| ENGAGEMENT SYSTEMS   |         |          |          |
| TV DISPLAY   |         |          |          |
| Joy stick  |         |          |          |
| Lantern pod planned  |         |          |          |
| LIMITATIONS  |         |          |          |
| MACH 5-1.5   |         |          |          |
| PROGRAM MANAGEMENT   |         |          |          |
| CONTRACTOR-HUGHES  |         |          |          |
| UNIT COST-\$90,000   |         |          |          |
| STATUS- PRODUCTION   |         |          |          |
| NEXT EVENT-IOC   |         |          |          |
| REFERENCE-   |         |          |          |



TARGETS ARMOR & HARD FIXED

SHORT RANGE

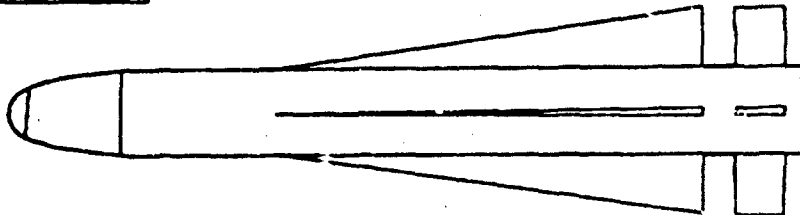
NOMENCLATURE AGM-65F

NAME MAVERICK

WEAPON CHARACTERISTICS

WEIGHT- 675 LBS  
LENGTH- 97 7/8  
DIAMETER-12IN  
GUIDANCE-IR  
CONTROLS-TAIL  
AUTOPILOT-ROLL STABILIZED 3 AXIS  
PROPULSION-BOOST SUSTAIN  
WARHEAD- 300 LBS BLAST-FRAG  
FUZE- CONTACT TIME DELAY

PICTORIAL



EMPLOYMENT OPTIONS

AIRCRAFT

F-4 (4) F-15 (4)  
A-7 (4)  
A-10 (4)  
F-16 (4)

LAUNCHER

LAU-88A  
LAU-117A

ENGAGEMENT SYSTEMS

TV DISPLAY  
Joy stick

LIMITATIONS

MACH 5-1.5

PROGRAM MANAGEMENT

CONTRACTOR- HUGHES  
UNIT COST-  
STATUS- PRODUCTION  
NEXT EVENT-  
REFERENCE- JMEM

TARGETS EMITTERS

LONG RANGE

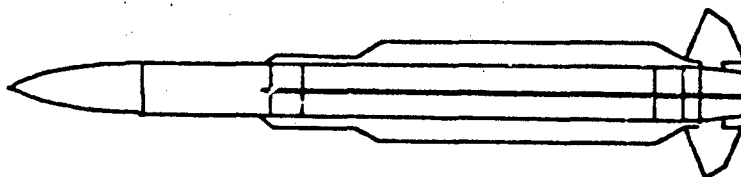
NOMENCLATURE AGM-78

NAME STANDARD ARM

WEAPON CHARACTERISTICS

WEIGHT- 1358 lbs.  
 LENGTH- 180 IN.  
 DIAMETER- 13.5 IN.  
 GUIDANCE- PASSIVE RADIATION HOMING  
 CONTROLS- TAIL  
 AUTOPILOT- THREE AXIS ADAPTIVE  
 PROPULSION- BOOST SUSTAIN 120,000 lbs-sec  
 WARHEAD- BLAST FRAGMENTATION 223 LBS MK 73 MOD 0,1  
 FUZE- ACTIVE OPTICAL PROX (DSU-10/B)

PICTORIAL



EMPLOYMENT OPTIONS

AIRCRAFT

F-4 (4)  
 F-105 (2)  
 A-6E

LIMITATIONS

MAX RANGE 65NM  
 MAX LAUNCH VELOCITY 2 GM

LAUNCHER

LAU-77  
 LAU-78  
 LAU-80

ENGAGEMENT SYSTEMS

AVC-21  
 APR-35, 36, 37  
 ALR-69

PROGRAM MANAGEMENT

CONTRACTOR- GENERAL DYNAMICS  
 UNIT COST-  
 STATUS- INVENTORY  
 NEXT EVENT-  
 REFERENCE- JMEM 3-35

TARGETS SHIPS

LONG RANGE

NOMENCLATURE

ACM 84

NAME: HARPOON

WEAPON CHARACTERISTICS

WEIGHT-1100lb

LENGTH-151in

DIAMETER-13.5in

GUIDANCE-INS MIDCOURSE, ACTIVE RADAR TERMINAL

CONTROLS-TAIL

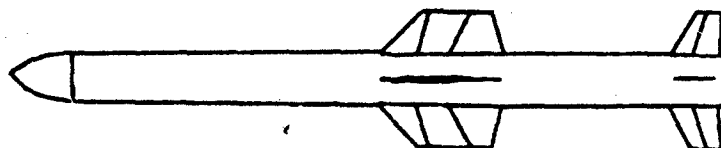
AUTOPILOT-INS

PROPULSION-TURBOJET SUSTAINER ENGINE

WARHEAD-500lb DESTEX

FUZE- CONTACT

PICTORIAL



EMPLOYMENT OPTIONS

AIRCRAFT

P-3

S-3

A-7

A-6E

LAUNCHER

AERO 85A1

MAU-9A/A

AERO 7A-1

ENGAGEMENT SYSTEMS

INS INITIALIZATIONS

PROGRAM MANAGEMENT

CONTRACTOR-MCDONNELL DOUGLAS/IBM/TI

UNIT COST-

STATUS-INVENTORY

NEXT EVENT-

REFERENCE-JMEM

TARGETS EMITTERS

MEDIUM RANGE

NOMENCLATURE AGM-88

NAME HARM

**WEAPON CHARACTERISTICS**

WEIGHT- 750 LBS

LENGTH- 164 IN

DIAMETER- 10 IN

GUIDANCE- ANTI-RADIATION

CONTROLS- WING ELECTRO-MECHANICAL

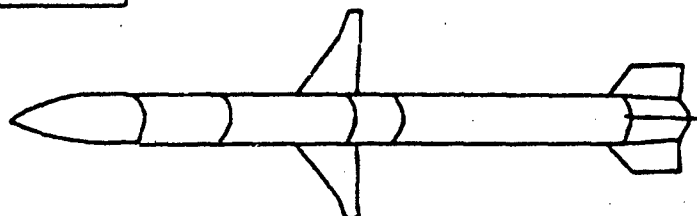
AUTOPILOT- 3 AXIS RATE

PROPULSION- BOOST SUSTAIN 64,000 LBS-SEC LOW SMOKE

WARHEAD- 146 LBS BLAST FRAC

FUZE- PULSED LASER PROX /CONTACT

**PICTORIAL**



**EMPLOYMENT OPTIONS**

**AIRCRAFT**

F-4 (4)

F-14 (6)

**ENGAGEMENT SYSTEMS**

APR-38

RWR

**LAUNCHER**

LAU-118

**PROGRAM MANAGEMENT**

CONTRACTOR-TEXAS INSTRUMENTS

UNIT COST- \$280,000

STATUS-PRODUCTION

NEXT EVENT-

REFERENCE-JMEM 3-41

TARGETS AIRFIELDS & RUNWAYS

LONG RANGE

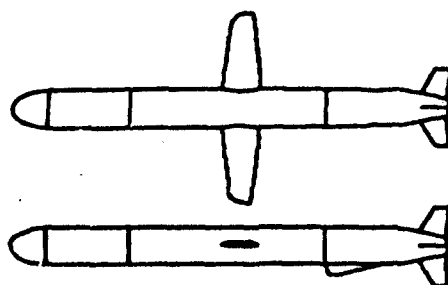
NOMENCLATURE. AGM-109H

NAME MRASM

**WEAPON CHARACTERISTICS**

WEIGHT-3000 Lbs  
 LENGTH-232 In  
 DIAMETER-20 3 In  
 GUIDANCE-Inertial update  
 CONTROLS-Tail  
 AUTOPILOT-3 axis acceleration  
 PROPULSION-Turbojet  
 WARHEAD- See submunitions below  
 FUZE- See submunitions

**PICTORIAL**



**EMPLOYMENT OPTIONS**

**SUBMUNITIONS**

ACM  
 AMIS  
 BLU-63  
 BTM  
 VAM  
 CEB  
 BKEP

**ENGAGEMENT SYSTEMS**  
 INERTIAL SYSTEM

**AIRCRAFT**

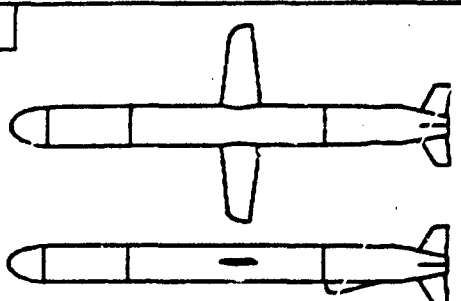
B-52 (12)

**PROGRAM MANAGEMENT**

CONTRACTOR-GENERAL DYNAMICS  
 UNIT COST- \$840,700  
 STATUS- TERMINATED 1983  
 NEXT EVENT-  
 REFERENCE- MAJ. VEISS AV 872-4151

TARGETS HARD FIXED

LONG RANGE

|   |  |                                       |
|---|--|---------------------------------------|
| NOMENCLATURE AGM-109I   |  | NAME MRASM VARIANT                    |
| WEAPON CHARACTERISTICS  |  |                                       |
| WEIGHT-3000 Lbs<br>LENGTH-232 In<br>DIAMETER-20 3 In<br>GUIDANCE-Inertial update/IIR terminal (DSMAC)<br>CONTROLS-Tail<br>AUTOPILOT-3 axis acceleration<br>PROPULSION-Turbojet<br>WARHEAD-WDU-25 A/B 967 Lbs penetrator with 357 Lbs H.E.<br>FUZE-FMU-138/B |  |                                       |
| PICTORIAL   |  |                                       |
|   |  |                                       |
| EMPLOYMENT OPTIONS  |  |                                       |
| AIRCRAFT<br>B-52D (11)  |  | ENGAGEMENT SYSTEMS<br>INERTIAL SYSTEM |
| PROGRAM MANAGEMENT<br>CONTRACTOR- GENERAL DYNAMICS<br>UNIT COST- \$540,700<br>STATUS- TERMINATED<br>NEXT EVENT-<br>REFERENCE- MAJ. WEISS AV 872-4151  |  |                                       |

TARGETS HARD POINT TARGETS

MEDIUM RANGE

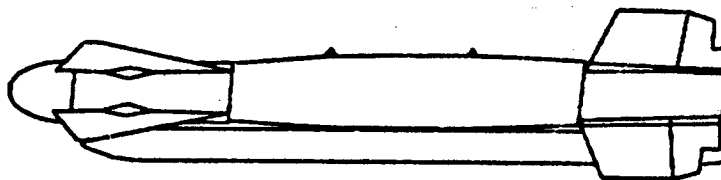
NOMENCLATURE AGM-130A

NAME POWERED GBU-15

**WEAPON CHARACTERISTICS**

WEIGHT- 2900 LBS.  
LENGTH- 158.5 IN.  
DIAMETER- 18 IN  
GUIDANCE- TV/IIR/DATA LINK  
CONTROLS- TAIL  
AUTOPILOT- PITCH & YAW RATE, ROLL POSITION  
PROPULSION- 8-9 IN DIA 120 IN LENGTH, 350 LBS BOOST  
WARHEAD- MK-84, IMP MK-84, MK-83  
FUZE- FMU-124A/B

**PICTORIAL**



**EMPLOYMENT OPTIONS**

**AIRCRAFT**

F-4E (4)  
F-111 (4)  
F-15 (2)  
F-18 (2)

**LIMITATIONS**

0.55-1.4 MACH BELOW 40 KFT

**ENGAGEMENT SYSTEMS**

TV, IIR, RADAR DISPLAY  
JOY STICK  
DATA LINK

**LAUNCHER**

MAU-12

**PROGRAM MANAGEMENT**

CONTRACTOR- HUGHES/ROCKWELL  
UNIT COST- TBD  
STATUS- PRE FSD  
NEXT EVENT- FSD JUNE 84  
REFERENCE-

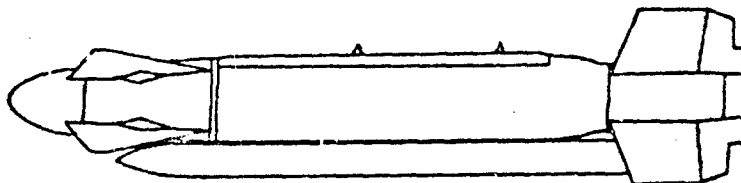
# TARGETS

|                       |                     |
|-----------------------|---------------------|
| NOMENCLATURE AGM-130B | NAME POWERED CBU-15 |
|-----------------------|---------------------|

## WEAPON CHARACTERISTICS

WEIGHT- 3000 #  
 LENGTH- 160"  
 DIAMETER-20 25"  
 GUIDANCE-TV/IIR/DATA LINK  
 CONTROLS- TAIL  
 AUTOPILOT-PITCH & YAW, ROLL POSIT  
 PROPULSION-8-9" DIA, 120" LENGTH, 350#  
 WARHEAD-  
 FUZE- 124A/B MODIFIED

## PICTORIAL



## EMPLOYMENT OPTIONS

### AIRCRAFT

F-4E F-15 } ANTICIPATED  
 F-111F A-10

### SUBMUNITIONS

BLU-97/B (CEB~400)  
 BKEP ANTICIP (~400)

### ENGAGEMENT SYSTEMS

TV, IIR, & RADAR DISPLAY  
 JOY STICK  
 DATA LINK CONTROL PANEL

### DISPENSER

SUU-54A/B

### PROGRAM MANAGEMENT

CONTRACTOR- G&C HUGHES, CONTROLS ROCKWELL  
 UNIT COST-  
 STATUS-  
 NEXT EVENT-FSED ~ JUN 84  
 REFERENCE-



TARGETS: ARMOR/AIRFIELDS

MEDIUM RANGE

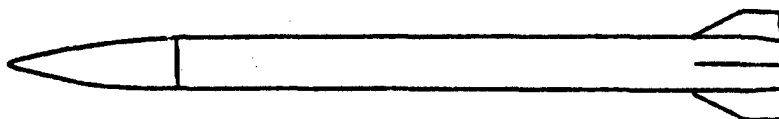
**NOMENCLATURE**

NAME ASSAULT BREAKER

**WEAPON CHARACTERISTICS**

WEIGHT- 2720 lbs  
LENGTH- 254 in  
DIAMETER- 16 1/2 in  
GUIDANCE- Inertial update from PAVE MOVER  
CONTROLS- Tail  
AUTOPILOT- 3 axis acc  
PROPULSION- TBD  
WARHEAD- See submunition  
FUZE- See submunition

**PICTORIAL**



**EMPLOYMENT OPTIONS**

**SUBMUNITIONS**

Sheet  
TCSM  
CADM  
CEB  
BLU 63  
VAM 93

**ENGAGEMENT SYSTEMS**

Inertial system  
PAVE MOVER data link

**AIRCRAFT**

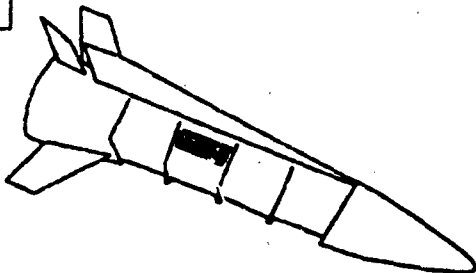
B-52  
F-111 (4)  
F-4 (2)  
F-16 (2)  
A-10 (2)  
A-7 (2)

**PROGRAM MANAGEMENT**

CONTRACTOR- MARTIN MARIETTA  
UNIT COSY-  
STATUS- TECHNOLOGY TRANSFERED TO JTACMS  
NEXT EVENT-  
REFERENCE- ESD AV 478-5080 EXT 3075

TARGETS HIGH VALUE FIXED

VERY LONG RANGE

|   |  |                           |
|---|--|---------------------------|
| NOMENCLATURE  |  | NAME AXE                  |
| <b>WEAPON CHARACTERISTICS</b><br>WEIGHT- 60,100 LBS<br>LENGTH- 48 FT<br>DIAMETER- TBD<br>GUIDANCE- UPDATED INERTIAL<br>CONTROLS- TAIL<br>AUTOPILOT- 3 AXIS ACCELERATION<br>PROPULSION- TWO STAGE SOLID<br>WARHEAD- SUBMUNITIONS OR UNITARY<br>FUZE- ALTITUDE SENSOR |  |                           |
| <b>PICTORIAL</b>  |  |                           |
|   |  | ONE CONCEPT<br>DESIGN TBD |
| <b>EMPLOYMENT OPTIONS</b>   |  |                           |
| SUBMUNITIONS<br>KEP (384)<br>GATOR  |  |                           |
| PROGRAM MANAGEMENT<br>CONTRACTOR- TBD<br>UNIT COST-<br>STATUS- CONCEPT FORMULATION<br>NEXT EVENT-<br>REFERENCE- XRO AV 872-4151   |  |                           |

TARGETS HARD FIXED

LONG RANGE

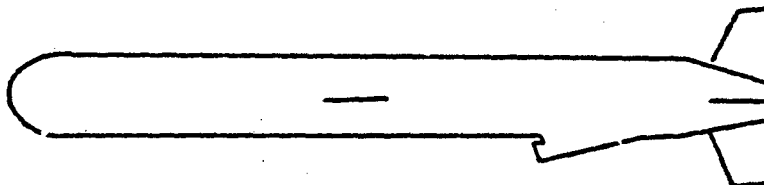
**NOMENCLATURE**

NAME BACK BREAKER

**WEAPON CHARACTERISTICS**

WEIGHT- Depends on submunition (LESS THAN 3000 Lbs )  
LENGTH- 232 In  
DIAMETER- 20.3 In  
GUIDANCE- Inertial update  
CONTROLS- Tail  
AUTOPILOT- 3 axis acceleration  
PROPULSION- Turbojet  
WARHEAD- See submunitions below  
FUZE- TBD

**PICTORIAL**



**EMPLOYMENT OPTIONS**

**SUBMUNITIONS**

ACM  
AMIS  
BLU-63  
BTM  
CADM  
CEB  
TCSM

**ENGAGEMENT SYSTEMS**  
INERTIAL SYSTEM

**AIRCRAFT**

B-52

**PROGRAM MANAGEMENT**

CONTRACTOR-

UNIT COST-

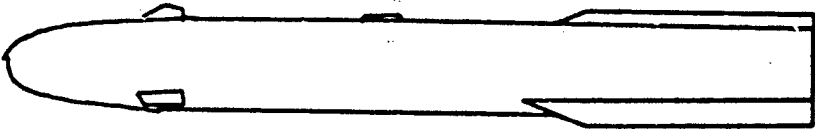
STATUS- ADVANCED DEVELOPMENT COMPLETED

NEXT EVENT-

REFERENCE- MR. GAY AV 872-2838

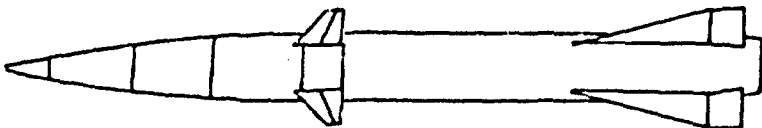
TARGETS ARMOR

SHORT RANGE


|   |               |
|---|---------------|
| NOMENCLATURE  | NAME HELLFIRE |
| <b>WEAPON CHARACTERISTICS</b><br>WEIGHT- 90lb<br>LENGTH- 64in<br>DIAMETER- 7in<br>GUIDANCE- LASER<br>CONTROLS- TAIL<br>AUTOPILOT- PITCH/ROLL GYRO<br>PROPULSION- 20,000lb-sec<br>WARHEAD- 20lb SHAPED CHARGE<br>FUZE- CONTACT   |               |
| <b>PICTORIAL</b><br>  |               |
| <b>EMPLOYMENT OPTIONS</b><br>AIRCRAFT<br>A-10<br>ATTACK HELICOPTERS<br>LAUNCHER<br>FOUR RAIL UNIQUE DESIGN<br>ENGAGEMENT SYSTEMS<br>LAUNCHER INTERFACE<br><br>PROGRAM MANAGEMENT<br>CONTRACTOR- ROCKWELL<br>UNIT COST- \$35,000<br>STATUS- PRODUCTION (ARMY)<br>NEXT EVENT-<br>REFERENCE- |               |

TARGETS: DEEP STRIKE

LONG RANGE

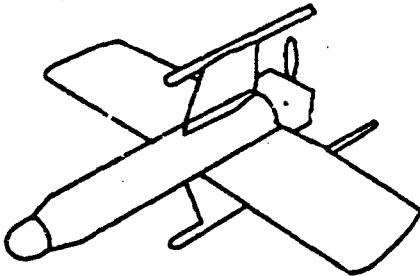
|  |  |             |
|--|--|-------------|
| NOMENCLATURE   |  | NAME JTACMS |
| WEAPON CHARACTERISTICS   |  |             |
| WEIGHT- 3300 LBS<br>LENGTH- 208 in<br>DIAMETER- 19 7 in<br>GUIDANCE- Inertial updated (PLSS & JSTARS)<br>CONTROLS- tail<br>AUTOPILOT- 3 axis acceleration<br>PROPULSION- TBD (ROCKET OR INTEGRAL ROCKET RAMJET)<br>WARHEAD- See submunitions<br>FUZE- PROGRAMMABLE |  |             |
| PICTORIAL  |  |             |
| GENERIC SYSTEM<br>  |  |             |
| EMPLOYMENT OPTIONS   |  |             |
| SUBMUNITIONS<br>TCSM<br>KEP<br>SKEET<br>CEB<br>M-74<br>MINES<br>UNITARY (1000)<br>CHEMICAL OR NUCLEAR<br>LAUNCH VEHICLES<br>B-52 G/H<br>F-16<br>HEMTT TRUCK  |  |             |
| PROGRAM MANAGEMENT<br>CONTRACTOR- TBD<br>UNIT COST-<br>STATUS- PRE FSD STUDY<br>NEXT EVENT- FSD 1995<br>REFERENCE- COL. BARNETT AV 746-1141  |  |             |

# TARGETS SAM SITES

|   |  |                         |
|---|--|-------------------------|
| NOMENCLATURE  |  | NAME LSD                |
| WEAPON CHARACTERISTICS  |  |                         |
| WEIGHT- 270 LBS<br>LENGTH- 144 IN.<br>DIAMETER-7 IN.<br>GUIDANCE-ARH/MMW<br>CONTROLS-TAIL<br>AUTOPILOT-3 axis acc<br>PROPULSION-BOOST/ LOW SMOKE<br>WARHEAD-25 LBS<br>FUZE-Proximity fuze |  |                         |
| PICTORIAL   |  |                         |
| FOLDING FIN OPTION<br>   |  |                         |
| EMPLOYMENT OPTIONS  |  |                         |
| AIRCRAFT  |  | LIMITATIONS             |
| ATF   |  | Min. launch alt. 100ft. |
| F-16  |  | Max. alt. 15000ft.      |
| F-15  |  | Min launch range 1.5km. |
| F-111   |  | Max launch range 30km.  |
| ENGAGEMENT SYSTEMS  |  | LAUNCHER                |
| RVR   |  | AMRAAM EJECTOR MODULAR  |
| INERTIAL SENSORS  |  | RAIL LAUNCHER           |
| JTIDS   |  |                         |
| GPS/DME   |  |                         |
| PROGRAM MANAGEMENT  |  |                         |
| CONTRACTOR-   |  |                         |
| UNIT COST-  |  |                         |
| STATUS-   |  |                         |
| NEXT EVENT-   |  |                         |
| REFERENCE-  |  |                         |

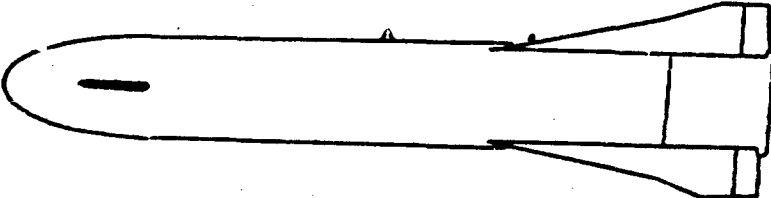
# TARGETS EMITTERS

LONG RANGE

|  |  |             |
|--|--|-------------|
| NOMENCLATURE   |  | NAME LOCUST |
| <b>WEAPON CHARACTERISTICS</b><br>WEIGHT- 174.8 Lbs<br>LENGTH- 8.5 Ft<br>DIAMETER-10 In.<br>GUIDANCE-ARM/OMEGA update<br>CONTROLS-Ailerons & rudder<br>AUTOPILOT-<br>PROPULSION-internal combustion<br>WARHEAD-13.5 Lbs<br>FUZE-contact |  |             |
| <b>PICTORIAL</b><br>   |  |             |
| <b>EMPLOYMENT OPTIONS</b><br>GROUND LAUNCHED DRONE   |  |             |
| <b>PROGRAM MANAGEMENT</b><br>CONTRACTOR-GENERAL DYNAMICS, TEXAS INSTR., TELEDYNE, VFW, DONIER, HBB<br>UNIT COST-\$14,000<br>STATUS-TERMINATED 1981 IN VALIDATION<br>NEXT EVENT-<br>REFERENCE-  |  |             |

TARGETS ARMOR/AIRFIELDS

MEDIUM RANGE

|  |  |  |
|--|--|--|
| NOMENCLATURE   |  | NAME ADVANCED CLUSTER WEAPON   |
| WEAPON CHARACTERISTICS   |  | (HAMMER)<br>(SAW)  |
| WEIGHT- 3000 Lbs (INCLUDES SUBMUNITIONS)<br>LENGTH- 104 INS<br>DIAMETER-23 x 23 INS<br>GUIDANCE-2-AXIS AUTOPILOT INERTIAL<br>CONTROLS-BANK TO TURN TAIL<br>AUTOPILOT-PREPROGRAMMED PRIOR TO LAUNCH<br>PROPULSION-12,900 lb-sec MOTOR OPTIONAL<br>WARHEAD-MUNITIONS DISPENSER<br>FUZE-S/A FSU 9 |  |  |
| PICTORIAL  |  |  |
|   |  |  |
| EMPLOYMENT OPTIONS   |  | POSSIBLE SUBMUNITIONS  |
| AIRCRAFT<br>F-4 (2) F-15 (2)<br>F-16 (2)<br>F-111 (4)<br>A-10 (2)<br>A-7 (2)   |  | BLU-86<br>CEB<br>SKEET<br>SADARM<br>SC-357<br>M-74<br>STABO<br>HB-870<br>MUS<br>KB-44<br>BKEP<br>HTW |
| ENGAGEMENT SYSTEMS   |  |  |
| 1760 INTERFACE   |  |  |
| LIMITATIONS  |  |  |
| MACH 0.4 TO 1.2  |  |  |
| PROGRAM MANAGEMENT   |  |  |
| CONTRACTOR-  |  |  |
| UNIT COST-   |  |  |
| STATUS-CONCEPT DEVELOPMENT   |  |  |
| NEXT EVENT- FSD 86   |  |  |
| REFERENCE-L/C NANCE AV 872-4151  |  |  |



# TARGETS:EMITTERS

## SHORT RANGE

### NOMENCLATURE

NAME SPV

### WEAPON CHARACTERISTICS

WEIGHT-150-200 Lbs  
 LENGTH-110-120 In  
 DIAMETER-5 In  
 GUIDANCE-ARH/Inertial/MMW or IIR  
 CONTROLS-Tail or canard  
 AUTOPILOT-3 axis acc  
 PROPULSION-Boost/low smoke or ducted rocket  
 WARHEAD-20-34 Lbs blast frag.  
 FUZE-Proximity fuze

### PICTORIAL

ONE OF FIVE CONCEPTS



### EMPLOYMENT OPTIONS

#### AIRCRAFT

A-10  
 F-4  
 F-16  
 F-15  
 F-111  
 A-7  
 B-52

#### LIMITATIONS

Min launch alt. 100ft  
 Max alt. 15000ft  
 Min launch range 1.5km  
 Max launch range 30km

#### ENGAGEMENT SYSTEMS

RWR  
 INERTIAL SENSORS  
 JTIDS  
 GPS/DME

#### PROGRAM MANAGEMENT

CONTRACTOR-HUGHES,ROCKWELL,TI,CO,MARTIN  
 UNIT COST-  
 STATUS- TERMINATED 1980 IN CONCEPT DEV  
 NEXT EVENT-TECHNOLOGY TRANSFERRED TO SIDEARM II  
 REFERENCE-AD/XRC AV 872-3722

TARGETS HARD FIXED

SHORT RANGE

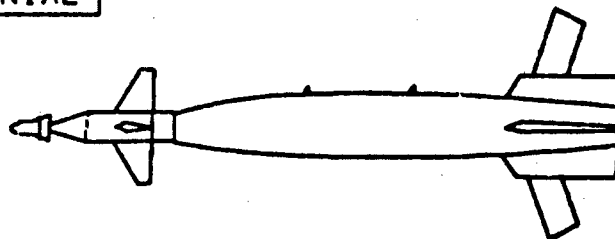
NOMENCLATURE GBU-10C/D

NAME LASER GUIDED BOMB

**WEAPON CHARACTERISTICS**

WEIGHT- 2081 LBS  
LENGTH- 168.9 IN  
DIAMETER- 18 IN  
GUIDANCE- Semi-active Laser (1.06 microns)  
CONTROLS- Canard  
AUTOPILOT- Proportional  
PROPULSION- None  
WARHEAD- MK-81 Bomb  
FUZE- Selectable see JMEM pg 1061

**PICTORIAL**



**EMPLOYMENT OPTIONS**

**AIRCRAFT**

A-7 (2)  
F-4 (2-4)  
F-16 (2)  
F-111 (4)  
F-15 (2)

**LIMITATIONS**

MAX VEL. 600 KTAS

**ENGAGEMENT SYSTEMS**

PAVE TACK  
LASER DESIGNATOR

**LAUNCHER**

MK 3 MOD 0 LUGS

**PROGRAM MANAGEMENT**

CONTRACTOR- OGDEN AIR LOGISTICS CENTER  
UNIT COST- \$10,000  
STATUS- INVENTORY  
NEXT EVENT-  
REFERENCE- JMEM 1-10

TARGETS HARD FIXED TARGETS

SHORT RANGE

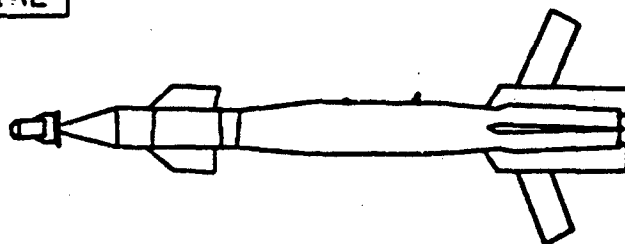
NOMENCLATURE GBU-12B/B

NAME LASER GUIDED BOMB

**WEAPON CHARACTERISTICS**

WEIGHT- 600-650 LBS.  
LENGTH- 126-131 IN.  
DIAMETER- 10 8 IN  
GUIDANCE- SEMI-ACTIVE LASER 1 00 MICRONS  
CONTROLS- CANARD  
AUTOPILOT- ANGLE RATE  
PROPULSION- None  
WARHEAD- MK-82 BOMB  
FUZE- SELECTABLE SEE JMEM

**PICTORIAL**



**EMPLOYMENT OPTIONS**

**AIRCRAFT**

A-7 (4)  
F-4 (2-4)  
F-16 (4)  
F-111 (4)  
F-15 (4)

**LIMITATIONS**

MAX VELOCITY 600 KTAS

**ENGAGEMENT SYSTEMS**

PAVE TACK  
LASER POD

**LAUNCHER**

MS3314 LUGS

**PROGRAM MANAGEMENT**

CONTRACTOR- OGDEN AIR LOGISTICS CENTER  
UNIT COST- 98,100  
STATUS- INVENTORY  
NEXT EVENT-  
REFERENCE- JMEM 1-52

TARGETS SHIPS, SAMSITES, BRIDGES

MEDIUM RANGE

NOMENCLATURE CBU-15 (V) 1/B NAME:

**WEAPON CHARACTERISTICS**

WEIGHT-2500 LBS

LENGTH-154 5 In

DIAMETER-18 In

GUIDANCE-TV/DATA LINK

CONTROLS-Tail

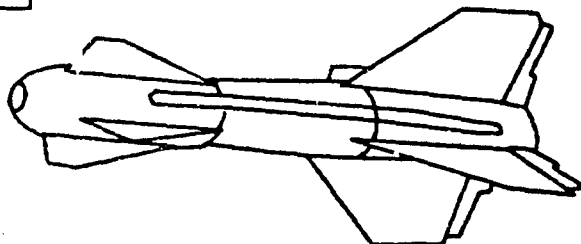
AUTOPILOT-Pitch & Yaw rate, Roll position

PROPULSION-None

WARHEAD-MK-84

FUZE-FMU-124A/B

**PICTORIAL**



**EMPLOYMENT OPTIONS**

**AIRCRAFT**

B-52 (4)

F-4 (2)

F-111 (4)

A-7 (2)

**LAUNCHER**

MAU-12

**LIMITATIONS**

SS-1 4 MACH BELOW 40 KFT.

**ENGAGEMENT SYSTEM**

TV & Radar Display

Joy stick

Data link Control panel

**DISPENSER**

MK-84

**PROGRAM MANAGEMENT**

CONTRACTOR-HUGHES/ROCKWELL

UNIT COST-\$131,000

STATUS-INVENTORY

NEXT EVENT-

REFERENCE-MR. PRESCOT 872-4281

TARGETS SHIPS ,SAMSITES ,BRIDGES

MEDIUM RANGE

NOMENCLATURE CBU-15(V) 2/B

NAME :

**WEAPON CHARACTERISTICS**

WEIGHT- 2500 LBS

LENGTH-154.5 In.

DIAMETER-18 In.

GUIDANCE-IR/Beacon/Data link

CONTROLS-Tail

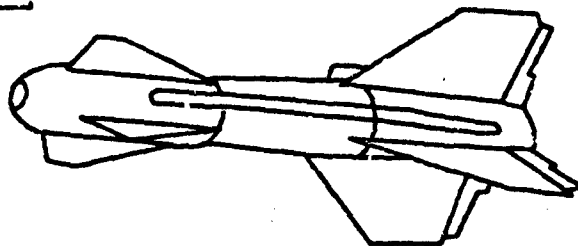
AUTOPILOT-Pitch & Yaw rate, Roll position

PROPULSION-None

WARHEAD-MK-84

FUZE-FMU-124A/B

**PICTORIAL**



**EMPLOYMENT OPTIONS**

**AIRCRAFT**

B-52 (4)

F-4 (2)

F-111 (4)

A-7 (2)

**LAUNCHER**

MAU-12

**LIMITATIONS**

.55-1.4 MACH BELOW 40 KFT

**ENGAGEMENT SYSTEM**

TV & Radar Display

Joy stick

Data link Control panel

**DISPENSER**

MK-84

**PROGRAM MANAGEMENT**

CONTRACTOR-HUGHES/ROCKWELL

UNIT COST-\$190,000

STATUS-10T&E

NEXT EVENT-PRODUCTION DECISION 1985

REFERENCE-CAPT PHILLIPS AV 872-4100

TARGETS PERSONNEL/ARMOR/AIRFIELDS

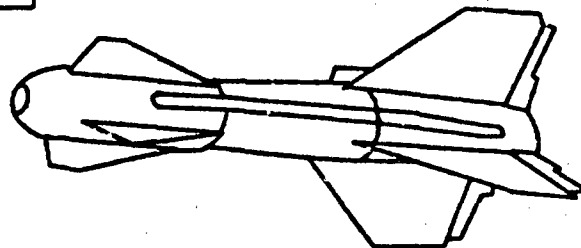
MEDIUM RANGE

NOMENCLATURE GBU-15(V) 3/B NAME

**WEAPON CHARACTERISTICS**

WEIGHT-2050 LBS  
LENGTH-154 IN  
DIAMETER- 20 IN.  
GUIDANCE- IIR/TV/DATA LINK  
CONTROLS- TAIL  
AUTOPILOT- PITCH AND YAW RATE, ROLL POSITION  
PROPULSION- None  
WARHEAD- SUU-54/BLU-63 (CBU-75)  
FUZE- FMU-123/B

**PICTORIAL**



**EMPLOYMENT OPTIONS**

DISPENSER  
SUU-54

**SUBMUNITIONS**

{BLU-63/B (1478)}  
{BLU-66/B (370)} CBU-75  
BLU-97/B (415)  
BLU-91/B (178)  
BLU-92/B (178)  
BKEP (35)

**PROGRAM MANAGEMENT**

CONTRACTOR-HUGHES/ROCKWELL  
UNIT COST-TBD  
STATUS-PRODUCTION DECISION?  
NEXT EVENT-  
REFERENCE-MR. PRESCOTT 872-4261

TARGETS HARD FIXED

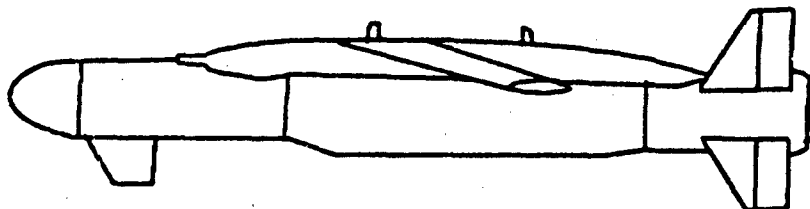
MEDIUM RANGE

NOMENCLATURE CBU-20(V) 2/B NAME:

**WEAPON CHARACTERISTICS**

WEIGHT-2700-3025 Lbs  
LENGTH-154.5 In.  
DIAMETER-32 In.  
GUIDANCE-IR/Beacon/Data link  
CONTROLS-Tail  
AUTOPILOT- Pitch & Yaw rate, Roll position  
PROPULSION-None  
WARHEAD-BLU-63  
FUZE-FMU-124A/B

**PICTORIAL**



**EMPLOYMENT OPTIONS**

AIRCRAFT  
B-52

LAUNCHER  
MAU-12 on heavy stores adapter

ENGAGEMENT SYSTEM  
TV & Radar display  
Joy stick & Data link

DISPENSER  
SUU-54

PROGRAM MANAGEMENT  
CONTRACTOR- HUGHES/ROCKWELL  
UNIT COST-  
STATUS- VALIDATION COMPLETE  
NEXT EVENT- TERMINATED  
REFERENCE- MR. PRESCOTT AV 872-4261

TARGETS HARD FIXED TARGETS

SHORT RANGE

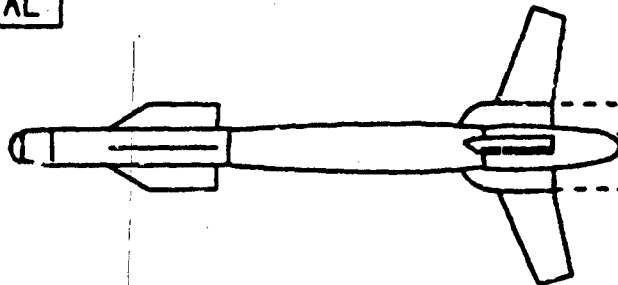
NOMENCLATURE GBU-22

NAME LLLGB MK-82

**WEAPON CHARACTERISTICS**

WEIGHT-860 Lbs.  
LENGTH-132 In.  
DIAMETER-10 In.  
GUIDANCE-Laser semi-active  
CONTROLS-Nose canards  
AUTOPILOT-Proportional guidance  
PROPULSION-None  
WARHEAD-MK-82  
FUZE-Contact

**PICTORIAL**



**EMPLOYMENT OPTIONS**

**AIRCRAFT**

F-4 (4)  
F-111 (8)  
A-10  
A-7 (4)  
F-16 (4)

**LAUNCHER**

MAU-12  
BRU-3  
TER  
MER

**ENGAGEMENT SYSTEMS**

Laser designator

**LIMITATIONS**

300 KTAS TO 1.4M

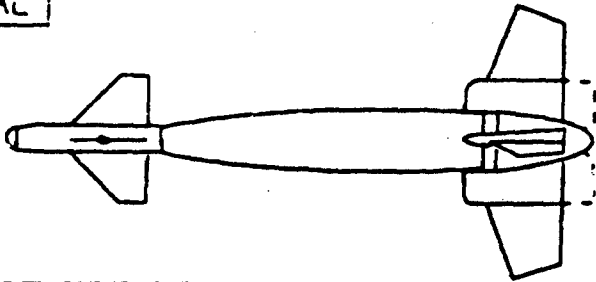
**PROGRAM MANAGEMENT**

CONTRACTOR-TEXAS INST.  
UNIT COST-\$14,502 FY83  
STATUS-PRODUCTION  
NEXT EVENT-  
REFERENCE-MR. FUNK 072-2533



TARGETS HARD FIXED TARGETS

SHORT RANGE

|   |                 |                  |                 |                 |         |        |           |       |         |     |          |     |
|---|-----------------|------------------|-----------------|-----------------|---------|--------|-----------|-------|---------|-----|----------|-----|
| NOMENCLATURE CBU-24   |                 | NAME LLLGB MK-84 |                 |                 |         |        |           |       |         |     |          |     |
| <b>WEAPON CHARACTERISTICS</b><br>WEIGHT-2267 Lbs<br>LENGTH-189 In<br>DIAMETER-18 In<br>GUIDANCE-Laser semi-active<br>CONTROLS-Nose canards<br>AUTOPILOT-Proportional guidance<br>PROPULSION-None<br>WARHEAD-MK-84<br>FUZE-FMU-81/112  |                 |                  |                 |                 |         |        |           |       |         |     |          |     |
| <b>PICTORIAL</b><br>   |                 |                  |                 |                 |         |        |           |       |         |     |          |     |
| <b>EMPLOYMENT OPTIONS</b><br><table border="0"> <tr> <td><b>AIRCRAFT</b></td> <td><b>LAUNCHER</b></td> </tr> <tr> <td>F-4 (2)</td> <td>MAU-12</td> </tr> <tr> <td>F-111 (4)</td> <td>BRU-3</td> </tr> <tr> <td>A-7 (2)</td> <td>TER</td> </tr> <tr> <td>F-16 (2)</td> <td>MER</td> </tr> </table> |                 |                  | <b>AIRCRAFT</b> | <b>LAUNCHER</b> | F-4 (2) | MAU-12 | F-111 (4) | BRU-3 | A-7 (2) | TER | F-16 (2) | MER |
| <b>AIRCRAFT</b>   | <b>LAUNCHER</b> |                  |                 |                 |         |        |           |       |         |     |          |     |
| F-4 (2)   | MAU-12          |                  |                 |                 |         |        |           |       |         |     |          |     |
| F-111 (4)   | BRU-3           |                  |                 |                 |         |        |           |       |         |     |          |     |
| A-7 (2)   | TER             |                  |                 |                 |         |        |           |       |         |     |          |     |
| F-16 (2)  | MER             |                  |                 |                 |         |        |           |       |         |     |          |     |
| <b>ENGAGEMENT SYSTEMS</b><br>Laser designator   |                 |                  |                 |                 |         |        |           |       |         |     |          |     |
| <b>LIMITATIONS</b><br>300 KTAS TO 1 4M launch   |                 |                  |                 |                 |         |        |           |       |         |     |          |     |
| <b>PROGRAM MANAGEMENT</b><br>CONTRACTOR-TEXAS INST.<br>UNIT COST-\$14,935 FY83*<br>STATUS- PRODUCTION<br>NEXT EVENT-<br>REFERENCE-MR FUNK 872-2533  |                 |                  |                 |                 |         |        |           |       |         |     |          |     |

TARGETS HARD FIXED

MEDIUM RANGE

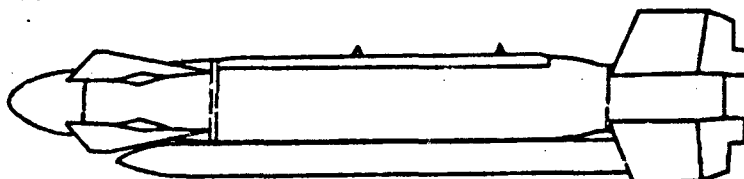
NOMENCLATURE

NAME HTW

WEAPON CHARACTERISTICS

WEIGHT- 2000 - 3000 LBS  
LENGTH- 155 IN  
DIAMETER- 18 IN  
GUIDANCE- INERTIAL/INERTIAL UPDATED/CORRELATION  
CONTROLS- TAIL  
AUTOPILOT- TBD  
PROPULSION- BOOST  
WARHEAD- PENETRATOR (BTM, 2000 LBS , ETC.)  
FUZE- VOID SENSING OR TIME DELAY OR IMPACT ETC

PICTORIAL



ONE OF MANY POSSIBLE CONFIGURATIONS

EMPLOYMENT OPTIONS

AIRCRAFT

B-52 (4)  
F-4 (2)  
F-111 (4)  
A-7 (2)  
F-16 (2)

ENGAGEMENT SYSTEMS

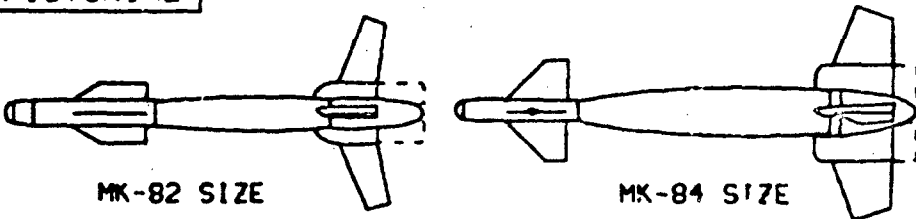
CPS  
PLSS  
INERTIAL

PROGRAM MANAGEMENT

CONTRACTOR- BDM STUDY PHASE  
UNIT COST-  
STATUS- CONCEPT STUDIES  
NEXT EVENT- CONCEPT DEFINITION 1988  
REFERENCE- MR TODD AV 872-4151

TARGETS HARD FIXED TARGETS

SHORT RANGE



|  |  |                                     |
|--|--|-------------------------------------|
| NOMENCLATURE   |  | NAME LLCB                           |
| WEAPON CHARACTERISTICS   |  | LAUNCH & LEAVE GUIDED BOMB          |
| WEIGHT- 730 OR 2200 LBS<br>LENGTH- 132 OR 169 IN<br>DIAMETER- 10 OR 18 IN<br>GUIDANCE- IMAGING INFRARED (LWIR)<br>CONTROLS- CANARD<br>AUTOPILOT- ANGLE RATE<br>PROPULSION- None<br>WARHEAD- MK-82 OR MK-84<br>FUZE- FMU-81, FMU-112, MK905         |  |                                     |
| PICTORIAL  |  |                                     |
|  <p>           MK-82 SIZE           <span style="margin-left: 200px;">MK-84 SIZE</span> </p> <p style="text-align: center;">SUU-64 VERSIONS ALSO CONSIDERED</p> |  |                                     |
| EMPLOYMENT OPTIONS   |  |                                     |
| AIRCRAFT<br>F-4 (2-4)<br>F-111 (4-8)<br>A-7 (2-4)<br>F-16 (2-4)  |  | LIMITATIONS<br>300 KTAS TO 1.4 MACH |
| ENGAGEMENT SYSTEMS<br>BOMBING COMPUTER   |  |                                     |
| LAUNCHER<br>MAU-12<br>BRU-3<br>TER/MER   |  |                                     |
| PROGRAM MANAGEMENT<br>CONTRACTOR- TEXAS INSTRUMENTS (SEEKER DEV (RHVTA)<br>UNIT COST-> \$20,000<br>STATUS-ADVANCED DEVELOPMENT<br>NEXT EVENT-FSD 1986<br>REFERENCE- MAJ MARTINDALEAV 872-4838  |  |                                     |

# UNGUIDED WEAPONS

vii

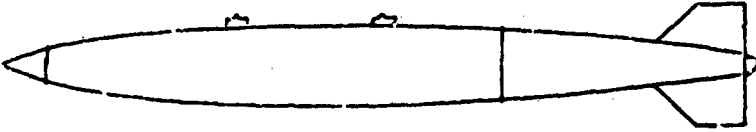
TARGETS HARD AREA TARGETS

SHORT RANGE

|  |                                  |   |
|--|----------------------------------|---|
| NOMENCLATURE MK 20   |                                  | NAME ROCKEYE II   |
| <b>WEAPON CHARACTERISTICS</b><br>WEIGHT-500 LBS<br>LENGTH-92 INCH<br>DIAMETER-13 2 INCH<br>GUIDANCE-UNGUIDED<br>CONTROLS-NONE<br>AUTOPILOT-NONE<br>PROPULSION-NONE<br>WARHEAD-217 MK-118 SHAPED CHARGE SUBMUNITIONS<br>FUZE- CONTACT MK 1 MOD 0 FOR SUBMUNITION<br>MK 339 MOD 0 TIME FUZE FOR DISPENSER  |                                  |   |
| <b>PICTORIAL</b><br><div style="display: flex; align-items: center; justify-content: space-around;">   </div> <p style="text-align: center;">MK 118 MOD 0 BOMBS</p> <p style="text-align: center;">MK 7 MOD 2 DISPENSER</p> |                                  |   |
| <b>EMPLOYMENT OPTIONS</b>  |                                  |   |
| <b>AIRCRAFT</b><br>F-4 (4-8)<br>F-15 (8)<br>F-16 (4)<br>A-7 (6)<br>A-10 (6)<br>F-111 (8)   | <b>LAUNCHER</b><br>PYLON MOUNTED | <b>DISPENSER</b><br>MK 7  |
| <b>PROGRAM MANAGEMENT</b><br>CONTRACTOR-<br>UNIT COST- \$3820<br>STATUS-INVENTORY<br>NEXT EVENT-<br>REFERENCE- JMEM 8-78   |                                  |   |
|  |                                  | <b>LIMITATIONS</b><br>MAX CARRAGE<br>MACH 1 3/700 KCAS<br><br><b>DELIVERY</b><br>225-500 KCAS<br><br>MIN ALT REL<br>500 FT AGL<br>OR 400 FT AGL<br>WITH 4G ESCAPE |

TARGETS FIXED

SHORT RANGE

|   |  |                                       |
|---|--|---------------------------------------|
| NOMENCLATURE MK-82  |  | NAME GP BOMB                          |
| <b>WEAPON CHARACTERISTICS</b><br>WEIGHT- 531 LBS<br>LENGTH- 90 IN<br>DIAMETER- 10 8 IN<br>GUIDANCE- None<br>CONTROLS- None<br>AUTOPILOT- None<br>PROPULSION- None<br>WARHEAD- Blast frag 502 Lbs<br>FUZE Mechanical or electrical (FMU-130) |  |                                       |
| <b>PICTORIAL</b><br>  |  |                                       |
| <b>EMPLOYMENT OPTIONS</b>   |  |                                       |
| <b>AIRCRAFT</b><br>F-4 (4-6)<br>F-16 (4)<br>A-10 (6)<br>F-111 (12)<br>A-7 (6)<br>F-15 (4-8)   |  | <b>LIMITATIONS</b><br>MAX VEL 600KIAS |
| <b>ENGAGEMENT SYSTEMS</b><br>BOMBING COMPUTER   |  |                                       |
| <b>LAUNCHER</b><br>MS3314 LUGS  |  |                                       |
| <b>PROGRAM MANAGEMENT</b><br>CONTRACTOR-<br>UNIT COST- \$797<br>STATUS- INVENTORY<br>NEXT EVENT-<br>REFERENCE- JMEM 1-10  |  |                                       |

TARGETS HARD FIXED

SHORT RANGE

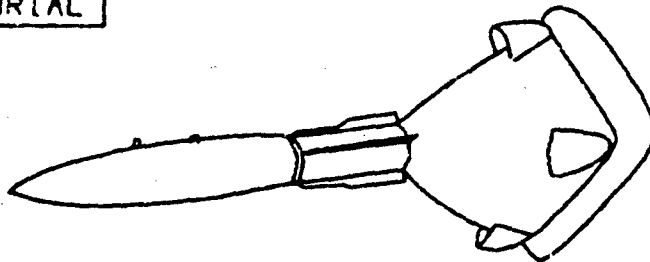
NOMENCLATURE MK-82 (BSU-49)

NAME GP BOMB

WEAPON CHARACTERISTICS

WEIGHT-540 LBS.  
LENGTH-90 IN  
DIAMETER-10 6 IN  
GUIDANCE-None  
CONTROLS-None  
AUTOPILOT-None  
PROPULSION-None  
WARHEAD- 502 LBS Blast Frog  
FUZE- Contact FMU-112

PICTORIAL



EMPLOYMENT OPTIONS

AIRCRAFT

A-10 (6)  
A-7 (6)  
F-4 (4)  
F-16 (4)  
F-111 (12)  
F-15 (8)

LIMITATIONS

MAX VEL 700 KIAS

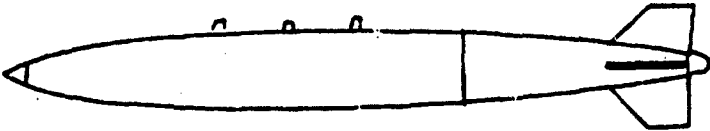
ENGAGEMENT SYSTEMS  
BOMBING COMPUTER

PROGRAM MANAGEMENT

CONTRACTOR-  
UNIT COST- \$2105  
STATUS- INVENTORY  
NEXT EVENT-  
REFERENCE- JMEM 1-14C

TARGETS HARD FIXED

SHORT RANGE

|  |  |              |  |
|--|--|--------------|--|
| NOMENCLATURE MK-84   |  | NAME GP BOMB |  |
| WEAPON CHARACTERISTICS   |  |              |  |
| WEIGHT-1972 Lbs<br>LENGTH-154 IN<br>DIAMETER-18 In<br>GUIDANCE-None<br>CONTROLS-None<br>AUTOPILOT-None<br>PROPULSION-None<br>WARHEAD- Blast Fragmentation<br>FUZE- Contact FMU-130 |  |              |  |
| PICTORIAL  |  |              |  |
|    |  |              |  |
| EMPLOYMENT OPTIONS   |  |              |  |
| AIRCRAFT   |  | LIMITATIONS  |  |
| A-7 (2)<br>F-4 (2)<br>F-16 (2)<br>F-111 (4)<br>F-15 (3)  |  | 600 KIAS     |  |
| ENGAGEMENT SYSTEMS   |  |              |  |
| Bombing computer   |  |              |  |
| LAUNCHER   |  |              |  |
| MK 3 MOD 0 LUGS  |  |              |  |
| PROGRAM MANAGEMENT   |  |              |  |
| CONTRACTOR-  |  |              |  |
| UNIT COST- \$2400  |  |              |  |
| STATUS-INVENTORY   |  |              |  |
| NEXT EVENT-  |  |              |  |
| REFERENCE-JMEM 1-24  |  |              |  |



TARGETS HARD FIXED

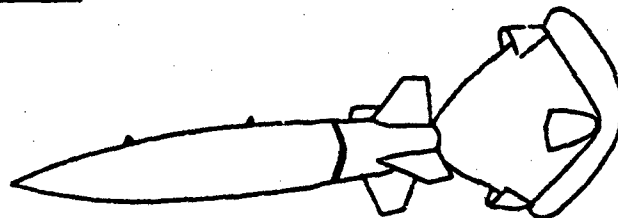
SHORT RANGE

NOMENCLATURE MK-84 (BSU-50) NAME GP BOMB

**WEAPON CHARACTERISTICS**

WEIGHT- 2016 LBS  
LENGTH- 15 IN  
DIAMETER- 10 IN  
GUIDANCE- None  
CONTROLS- None  
AUTOPILOT- None  
PROPULSION- None  
WARHEAD- Blast Frag  
FUZE- Contact FMU-112

**PICTORIAL**



**EMPLOYMENT OPTIONS**

**AIRCRAFT**

A-7 (2)  
F-4 (2)  
F-16 (2)  
F-111 (4)  
F-15 (3)

**LIMITATIONS**

MAX VEL 700 KIAS

**ENGAGEMENT SYSTEMS**  
BOMBING COMPUTER

**PROGRAM MANAGEMENT**

CONTRACTOR-  
UNIT COST- \$3003  
STATUS- PRODUCTION  
NEXT EVENT-  
REFERENCE- JMEM 1-28A

TARGETS: SOFT AND HARD FIXED

SHORT RANGE

NOMENCLATURE

NAME IMPROVED 2000

WEAPON CHARACTERISTICS

(IMPROVED MK-84)

WEIGHT-1928 LBS.

LENGTH-100 IN

DIAMETER- 14.5 IN.

GUIDANCE-

CONTROLS-

AUTOPILOT-

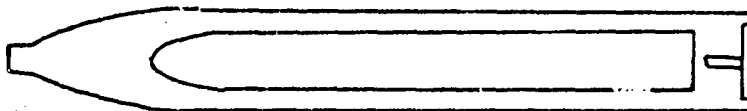
PROPULSION-

WARHEAD-

INTEGRATED INTO GBU-15 AND GBU-24

FUZE-FMU-112, FMU-139, FMU-124, MOD FUZE

PICTORIAL



EMPLOYMENT OPTIONS

AIRCRAFT

A-7 (2)

F-16 (2)

F-111 (4)

F-4 (2)

LAUNCHER

MAU-12

MER/TER

ENGAGEMENT SYSTEMS

SAME AS GBU-15 OR LLLGB

LIMITATIONS

323 KTAS TO 1.4 M LAUNCH

PROGRAM MANAGEMENT

CONTRACTOR-

UNIT COST-88-10K

STATUS- ADV DEV

NEXT EVENT-FSD

REFERENCE- DR. CALUDA AV0725375

TARGETS HARD FIXED

SHORT RANGE

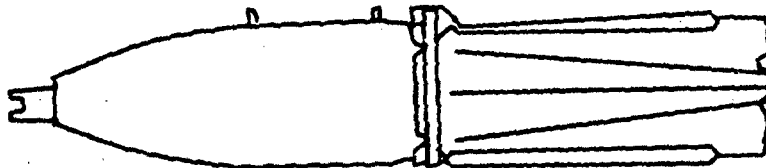
NOMENCLATURE M117 RETARD

NAME GP BOMB

WEAPON CHARACTERISTICS

WEIGHT- 954 LBS.  
LENGTH- 82 IN.  
DIAMETER- 18 1 IN.  
GUIDANCE- None  
CONTROLS- None  
AUTOPILOT- None  
PROPULSION- None  
WARHEAD- BLAST FRAGMENTATION 754 LBS. HE  
FUZE- CONTACT

PICTORIAL



EMPLOYMENT OPTIONS

AIRCRAFT

F-4 (4)  
F-16 (4)  
F-15 (4)  
A-7 (4)  
F-111 (8)

LIMITATIONS

600 KAIS

ENGAGEMENT SYSTEMS  
BOMBING COMPUTER

LAUNCHER  
MS 3314 LUGS

PROGRAM MANAGEMENT  
CONTRACTOR- OGDEN AIR LOGISTICS CENTER  
UNIT COST-  
STATUS- INVENTORY  
NEXT EVENT-  
REFERENCE- JMEM 1-22

TARGETS: HARD FIXED

SHORT RANGE

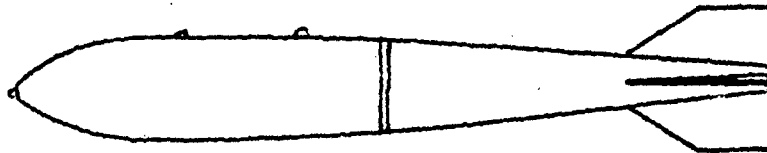
NOMENCLATURE: M118

NAME: DEMOLITION BOMB

**WEAPON CHARACTERISTICS**

WEIGHT- 3320 LBS  
LENGTH- 183 IN  
DIAMETER- 24 1 IN  
GUIDANCE- None  
CONTROLS- None  
AUTOPILOT- None  
PROPULSION- None  
WARHEAD- BLAST 188 LBS HE  
FUZE- CONTACT

**PICTORIAL**



**EMPLOYMENT OPTIONS**

**AIRCRAFT**

F-4 (2)  
F-111 (4)

**LIMITATIONS**

600 KIAS

**ENGAGEMENT SYSTEMS**  
BOMBING COMPUTER

**LAUNCHER**

MK 3 MOD 0 LUGS

**PROGRAM MANAGEMENT**

CONTRACTOR- AFLC OGDEN AIR LOGISTICS CTR  
UNIT COST-  
STATUS- INVENTORY  
NEXT EVENT-  
REFERENCE- JMEM 1-34

TARGETS PERSONNAL/MATERIAL

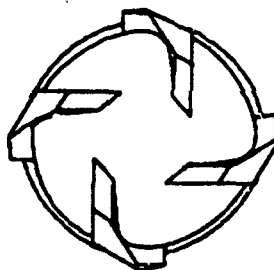
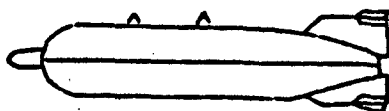
SHORT RANGE

NOMENCLATURE CBU-52 /BLU-61 NAME

**WEAPON CHARACTERISTICS**

WEIGHT- 789 LBS  
 LENGTH- 93 IN  
 DIAMETER- 16 IN  
 GUIDANCE-None  
 CONTROLS-None  
 AUTOPILOT-None  
 PROPULSION-None  
 WARHEAD- 220 BLU-61A/B BOMBLETS  
 FUZE- M339 Dispenser, M219 Bomblet

**PICTORIAL**



**EMPLOYMENT OPTIONS**

**AIRCRAFT**

A-7 (8)  
 F-4 (4-8)  
 F-16 (4)  
 F-111 (8)  
 F-15 (8)

**LIMITATIONS**

MAX VEL 625 KIAS

**DISPENSER**

SUU-308/B

**SUBMUNITION**

220 BLU-61A/B

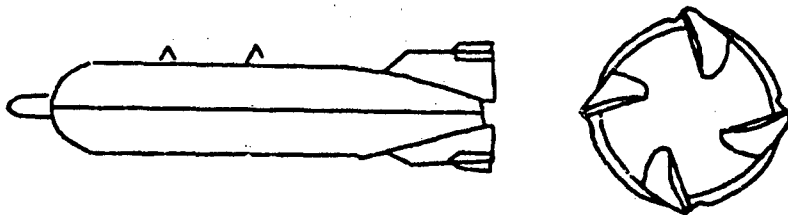
**ENGAGEMENT SYSTEMS**  
 BOMBING COMPUTER

**PROGRAM MANAGEMENT**

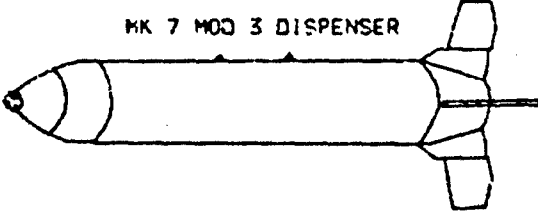
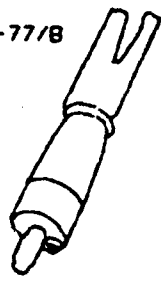
CONTRACTOR-USA  
 UNIT COST-\$1890  
 STATUS- INVENTORY  
 NEXT EVENT-  
 REFERENCE-JMEM 8-44

TARGETS LIGHT MATERIAL

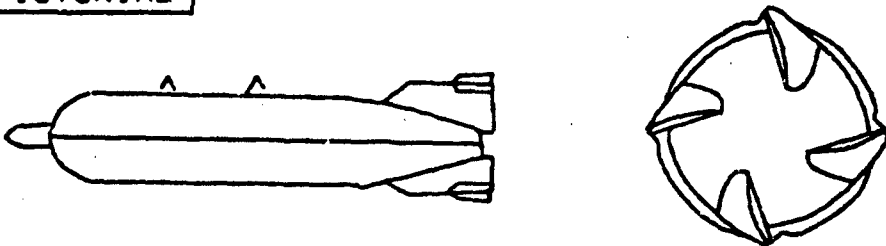
SHORT RANGE

|  |  |                                  |
|--|--|----------------------------------|
| NOMENCLATURE CBU-58  |  | NAME                             |
| WEAPON CHARACTERISTICS   |  |                                  |
| WEIGHT- 800 LBS<br>LENGTH- 93 IN<br>DIAMETER- 16 IN<br>GUIDANCE- None<br>CONTROLS- None<br>AUTOPILOT- None<br>PROPULSION- None<br>WARHEAD- 650 BLU-63 Bomblets<br>FUZE- M339 Dispenser, M219 Bomblet |  |                                  |
| PICTORIAL  |  |                                  |
|    |  |                                  |
| EMPLOYMENT OPTIONS   |  |                                  |
| AIRCRAFT<br>A-7 (8)<br>F-4 (4-8)<br>F-16 (4)<br>F-111 (8)<br>F-15 (8)  |  | LIMITATIONS<br>MAX VEL. 625 KIAS |
| ENGAGEMENT SYSTEMS<br>BOMBING COMPUTER   |  | DISPENSER<br>SUU-30H/B           |
| LAUNCHER<br>14 INCH BOMB RACKS<br>PROGRAM MANAGEMENT<br>CONTRACTOR- USA<br>UNIT COST- \$3124<br>STATUS- INVENTORY<br>NEXT EVENT-<br>REFERENCE- JMEM 6-88   |  | SUBMUNITION<br>650 BLU-63/B      |

# TARGETS HARD AREA TARGETS

|   |  |  |
|---|--|--|
| NOMENCLATURE CBU-59/B   |  | NAME APAM  |
| WEAPON CHARACTERISTICS  |  |  |
| WEIGHT- 750 LBS<br>LENGTH- 92 INCH<br>DIAMETER- 13 2 INCH<br>GUIDANCE- UNGUIDED<br>CONTROLS- NONE<br>AUTOPILOT- NONE<br>PROPULSION- NONE<br>WARHEAD- 717 BLU-77/B SHAPED CHARGE<br>FUZE- CONTACT MK 1 MOD 0 FOR SUBMUNITION<br>MK 339 MOD 0 TIME FUZE FOR DISPENSER |  |  |
| PICTORIAL   |  |  |
| MK 7 MOD 3 DISPENSER<br>  |  | BLU-77/B<br>   |
| EMPLOYMENT OPTIONS  |  |  |
| AIRCRAFT<br>F-4 (4-8)<br>F-15 (8)<br>F-16 (4)<br>A-7 (8)<br>A-10 (6)<br>F-111 (8)   |  | LIMITATIONS<br>MAX CARRAGE<br>MACH 1.3/700 KCAS<br>DELIVERY<br>225-500 KCAS<br>MIN ALT REL<br>500 FT AGL<br>OR 400 FT. AGL<br>WITH 4G ESCAPE |
| LAUNCHER<br>PYLON MOUNTED   |  |  |
| DISPENSER<br>MK 7   |  |  |
| PROGRAM MANAGEMENT<br>CONTRACTOR- USA<br>UNIT COST-<br>STATUS- INVENTORY<br>NEXT EVENT-<br>REFERENCE- JMEM 8-83   |  | SUBMUNITION<br>BLU-77/B (717)  |

# TARGETS:

|   |  |                                 |
|---|--|---------------------------------|
| NOMENCLATURE CBU-71/B   |  | NAME                            |
| WEAPON CHARACTERISTICS  |  |                                 |
| WEIGHT- 789 LBS<br>LENGTH- 93 IN<br>DIAMETER- 16 IN<br>GUIDANCE- None<br>CONTROLS- None<br>AUTOPILOT- None<br>PROPULSION- None<br>WARHEAD- 650 BLU-86 TIME DELAY BOMBLETS<br>FUZE- M330 Dispenser, M219 Bomblet |  |                                 |
| PICTORIAL   |  |                                 |
|    |  |                                 |
| EMPLOYMENT OPTIONS  |  |                                 |
| AIRCRAFT<br>A-7 (8)<br>F-4 (4-8)<br>F-16 (4)<br>F-111 (8)<br>F-15 (8)   |  | LIMITATIONS<br>MAX VEL 625 KIAS |
|   |  | DISPENSER<br>SUU-30H/B          |
| ENGAGEMENT SYSTEMS<br>BOMBING COMPUTER<br>LAUNCHER 14 INCH BOMB RACKS<br>PROGRAM MANAGEMENT<br>CONTRACTOR- USA<br>UNIT COST- \$3824<br>STATUS-<br>NEXT EVENT-<br>REFERENCE- JMEM 8-71                           |  | SUBMUNITION<br>650 BLU-86/B     |



TARGETS AREA TARGETS

SHORT RANGE

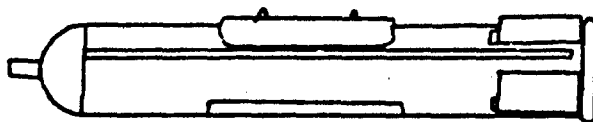
NOMENCLATURE CBU-72/B

NAME FUEL AIR EXPLOSIVE

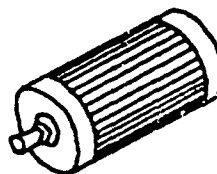
WEAPON CHARACTERISTICS

WEIGHT- 500 LBS.  
LENGTH- 85.6 IN  
DIAMETER- 14 IN  
GUIDANCE- None  
CONTROLS- None  
AUTOPILOT- None  
PROPULSION- None  
WARHEAD- BLU-73/B (FUEL)  
FUZE-MK 338 MOD 0 MECHANICAL

PICTORIAL



SUU-49/B



BLU-73/B

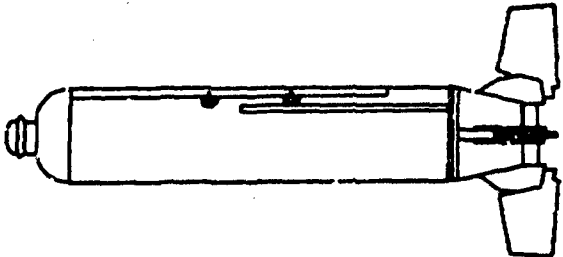
EMPLOYMENT OPTIONS

DISPENSER  
SUU-49/B

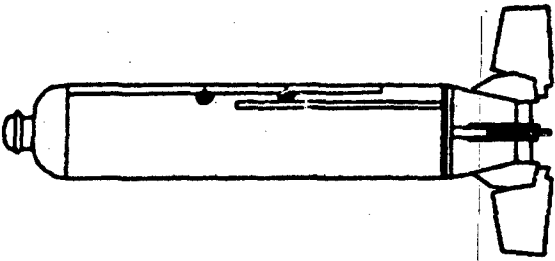
SUBMUNITIONS  
BLU-73/B (3)

PROGRAM MANAGEMENT  
CONTRACTOR- USA  
UNIT COST-  
STATUS-  
NEXT EVENT-  
REFERENCE-JMEM 1-44A

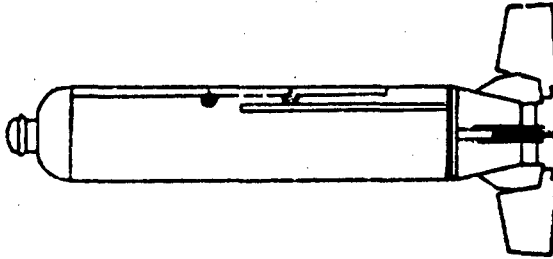
# TARGETS

|   |                    |           |
|---|--------------------|-----------|
| NOMENCLATURE: CBU-87/B  |                    | NAME: CEM |
| WEAPON CHARACTERISTICS  |                    |           |
| WEIGHT- 945 lbs.<br>LENGTH- 92 INS<br>DIAMETER-15 8 ins<br>GUIDANCE-N/A<br>CONTROLS-SPIN<br>AUTOPILOT-NONE<br>PROPULSION-NONE<br>WARHEAD-CEB BLU 97/B shaped charge/ fragmentation<br>FUZE- INTEGRAL PART OF DISPENSER & INCENDIARY<br>FZU-39/B PROX SENSOR |                    |           |
| PICTORIAL   |                    |           |
|    |                    |           |
| EMPLOYMENT OPTIONS  |                    |           |
| AIRCRAFT  | DISPENSER          |           |
| F-4 (6)   | SUU-65/A           |           |
| F-16 (4)  | SUBMUNITIONS       |           |
| A-10 (4)  | CEB/BLU-97/B (202) |           |
| F-111 (8)   | ENGAGEMENT SYSTEMS |           |
| A-7 (4)   | None               |           |
| LIMITATIONS   |                    |           |
| A/C LAUNCH ENV  |                    |           |
| LAUNCHER MER/TER  |                    |           |
| PROGRAM MANAGEMENT  |                    |           |
| CONTRACTOR-AERO JET GENERAL   |                    |           |
| UNIT COST-\$13,500  |                    |           |
| STATUS-   |                    |           |
| NEXT EVENT-   |                    |           |
| REFERENCE- SO8M MR. BROWN AV 8723000  |                    |           |

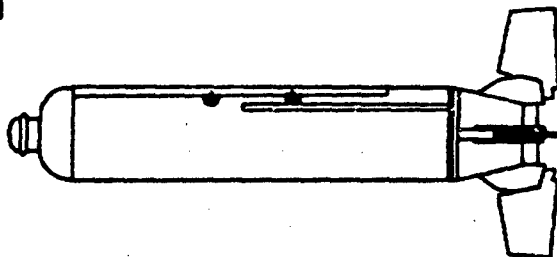
# TARGETS

|  |  |  |
|--|--|--|
| NOMENCLATURE CBU-89/B  |  | NAME GATOR   |
| WEAPON CHARACTERISTICS   |  |  |
| WEIGHT-710 lb<br>LENGTH-92 in<br>DIAMETER-16 in<br>GUIDANCE-None<br>CONTROLS-None<br>AUTOPILOT-none<br>PROPULSION-none<br>WARHEAD- BLU 91/92<br>FUZE- INTEGRAL PART OF DISPENSER<br>FZU-39/B PROX SENSOR |  |  |
| PICTORIAL  |  |  |
|   |  |  |
| EMPLOYMENT OPTIONS   |  |  |
| AIRCRAFT<br>F-16 (4)<br>F-111 (8)<br>A-10 (4)<br>F-4 (8)   |  | DISPENSER<br>SUU-64/B  |
| ENGAGEMENT SYSTEMS<br>NONE   |  | SUBMUNITION<br>BLU-91/B (72) ANTI-TANK<br>BLU-92/B (22) ANTI-PERSONNEL |
| LIMITATIONS<br>DELIVERY ENVELOPE<br>200ft TO 40,000 ft ALT<br>200 TO 700 KNOTS A/S   |  | LAUNCHER<br>MER/TER  |
| PROGRAM MANAGEMENT<br>CONTRACTOR-HONEYWELL/AEROJET<br>UNIT COST-\$25,000<br>STATUS-<br>NEXT EVENT-<br>REFERENCE-VALADE AV8723000   |  |  |

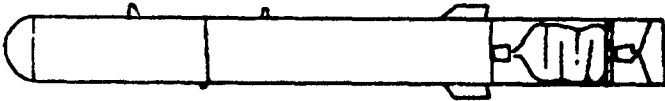
# TARGETS HEAVY ARMOR

|   |  |             |
|---|--|-------------|
| NOMENCLATURE CBU-90/B   |  | NAME ACM    |
| WEAPON CHARACTERISTICS  |  |             |
| WEIGHT- 945 lbs<br>LENGTH- 92 ins<br>DIAMETER- 15.6 ins<br>GUIDANCE- N/A<br>CONTROLS- Spin Option<br>AUTOPILOT- N/A<br>PROPULSION- N/A {3 horizontal and 1 downward slug<br>WARHEAD- BLU-99 (ACM) {Self forging fragmenting<br>FUZE- Integral part of Dispenser<br>FZU-39/B Prox Sensor |  |             |
| PICTORIAL   |  |             |
|    |  |             |
| EMPLOYMENT OPTIONS  |  |             |
| AIRCRAFT  |  | SUBMUNITION |
| F-4 (6)   |  | BLU-99 (48) |
| F-16 (4)  |  |             |
| F-111 (8)   |  | DISPENSER   |
| A-10 (4)  |  | SUU-65/B    |
| A-7 (4)   |  |             |
| ENGAGEMENT SYSTEMS  |  |             |
| COCKPIT ARMING  |  |             |
| LAUNCHER  |  |             |
| MER/TER   |  |             |
| PROGRAM MANAGEMENT  |  |             |
| CONTRACTOR- HONEYWELL   |  |             |
| UNIT COST- \$27,000 FY82*   |  |             |
| STATUS- TERMINATED AFTER FSD  |  |             |
| NEXT EVENT-   |  |             |
| REFERENCE-  |  |             |

# TARGETS:

|   |  |                   |      |
|---|--|-------------------|------|
| NOMENCLATURE: CBU-92/B  |  | NAME              | ERAM |
| WEAPON CHARACTERISTICS  |  |                   |      |
| WEIGHT- 960 lb<br>LENGTH- 92 in<br>DIAMETER-15 6 in<br>GUIDANCE-N/A<br>CONTROLS-SPIN CONTROL<br>AUTOPILOT-N/A<br>PROPULSION-N/A<br>WARHEAD-SELF FORCING FRAG BLU-101/B<br>FUZE- FZU-39/B Proximity sensor |  |                   |      |
| PICTORIAL   |  |                   |      |
|    |  |                   |      |
| EMPLOYMENT OPTIONS  |  |                   |      |
| AIRCRAFT  |  | SUBMUNITIONS      |      |
| F-4 (8)   |  | BLU-101B AVCO (9) |      |
| F-16 (4)  |  |                   |      |
| F-111 (8)   |  |                   |      |
| A-10 (4)  |  | DISPENSER         |      |
| ENGAGEMENT SYSTEM   |  | SUU-65/B          |      |
| ARMING  |  |                   |      |
| LAUNCHER  |  |                   |      |
| MER/TER   |  |                   |      |
| LIMITATIONS A/C LAUNCH ENV  |  |                   |      |
| PROGRAM MANAGEMENT  |  |                   |      |
| CONTRACTOR- AVCO  |  |                   |      |
| UNIT COST- \$37,500   |  |                   |      |
| STATUS- VALIDATION COMPLETE   |  |                   |      |
| NEXT EVENT- FSD 85  |  |                   |      |
| REFERENCE- MR HILL AV 8725780   |  |                   |      |

# TARGETS AIRFIELDS

|   |  |   |
|---|--|---|
| NOMENCLATURE  |  | NAME DURANDAL                                       |
| WEAPON CHARACTERISTICS  |  |   |
| WEIGHT- 430 LBS.<br>LENGTH- 96 IN<br>DIAMETER- 9 IN<br>GUIDANCE- None<br>CONTROLS- Parachute resist<br>AUTOPILOT- None<br>PROPULSION- Boost only<br>WARHEAD- Blast<br>FUZE- Contact delay |  |   |
| PICTORIAL   |  |   |
|   |  |   |
| EMPLOYMENT OPTIONS  |  |   |
| AIRCRAFT<br>F-4 (4-8)<br>F-16 (4)<br>F-111 (12)<br>F-15 (8)   |  | LIMITATIONS<br>500 KTAS ON F-111<br>630 KTAS ON F-4 |
| ENGAGEMENT SYSTEMS<br>BOMBING COMPUTER  |  |   |
| LAUNCHER<br>14 INCH RACKS   |  |   |
| PROGRAM MANAGEMENT<br>CONTRACTOR- FRANCE<br>UNIT COST- \$25,000<br>STATUS-<br>NEXT EVENT-<br>REFERENCE- LT COL PEARCE AV 8728557  |  |   |

TARGETS: LIGHT ARMOR

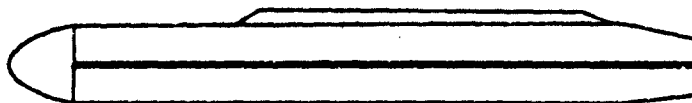
NOMENCLATURE GPU-5A

NAME 30 MM GUN POD

WEAPON CHARACTERISTICS

WEIGHT- 2000 lbs  
LENGTH- 14 ft  
DIAMETER- 25.12 ins  
GUIDANCE- NA  
CONTROLS- NA  
AUTOPILOT- NA  
PROPULSION- NA  
WARHEAD- 30 mm ammo  
FUZE- NA

PICTORIAL



EMPLOYMENT OPTIONS

AIRCRAFT

F-4 (2)  
A-7 (2)  
F-16 (2)

ENGAGEMENT SYSTEM

A/C radar

LIMITATIONS

No maneuvering restrictions

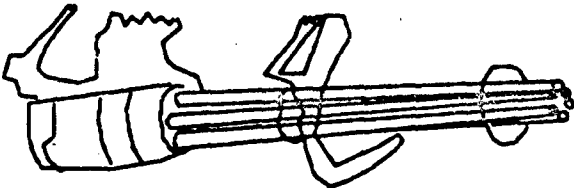
LAUNCHER

PYLON MOUNTED

PROGRAM MANAGEMENT

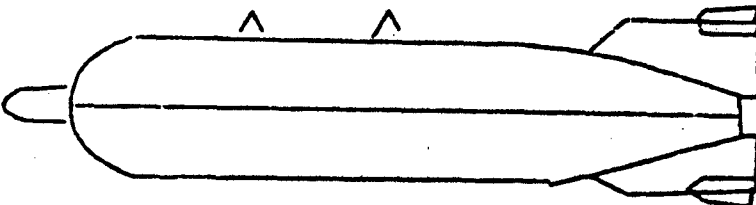
CONTRACTOR- GENERAL ELECTRIC  
UNIT COST- \$311,500  
STATUS- PRODUCTION  
NEXT EVENT-  
REFERENCE- MAJ. FRANCIS AV8728186

# TARGETS TANK VEHICLES

|   |                         |
|---|-------------------------|
| NOMENCLATURE  | NAME STABLIZED<br>GAU-8 |
| WEAPON CHARACTERISTICS  |                         |
| WEIGHT-Increase GAU-8 by 300 Lbs<br>LENGTH-N/A<br>DIAMETER-30 mm.<br>GUIDANCE-Lantern pod used for LOS<br>CONTROLS-Hydraulic actuators<br>AUTOPILOT-N/A<br>PROPULSION-N/A<br>WARHEAD-Discarding SABOT Improved API<br>FUZE- N/A |                         |
| PICTORIAL   |                         |
|   |                         |
| EMPLOYMENT OPTIONS  |                         |
| AIRCRAFT<br>A-10 (1)  |                         |
| ENGAGEMENT SYSTEM<br>LANTIRN POD<br>INS   |                         |
| LIMITATIONS<br>A-10 ENVELOPE  |                         |
| PROGRAM MANAGEMENT<br>CONTRACTOR- FRAICHILD<br>UNIT COST-<br>STATUS- TERMINATED 82<br>NEXT EVENT-<br>REFERENCE-   |                         |



# TARGETS AREA TARGETS

|   |           |                |
|---|-----------|----------------|
| NOMENCLATURE SUU-30A/B  |           | NAME DISPENSER |
| WEAPON CHARACTERISTICS  |           |                |
| WEIGHT- 195 LBS EMPTY 830 LBS LOADED WITH BLU-28/B<br>LENGTH- 93 IN<br>DIAMETER- 16 IN<br>GUIDANCE- None<br>CONTROLS- None<br>AUTOPILOT- None<br>PROPULSION- None<br>WARHEAD- SEE SUBMUNITIONS<br>FUZE- |           |                |
| PICTORIAL   |           |                |
|   |           |                |
| EMPLOYMENT OPTIONS  |           |                |
| SUBMUNITIONS  |           | SYSTEM         |
| BLU-28/B  | (650-670) | CBU-24         |
| BLU-61/B  | (220)     | CBU-52         |
| BLU-63/B  | (650)     | CBU-58         |
| BLU-85/B  | (70)      | CBU-70         |
| PROGRAM MANAGEMENT  |           |                |
| CONTRACTOR- USA   |           |                |
| UNIT COST-  |           |                |
| STATUS- INVENTORY   |           |                |
| NEXT EVENT-   |           |                |
| REFERENCE- JMEM 6-31  |           |                |

TARGETS. ARMOR, AREA

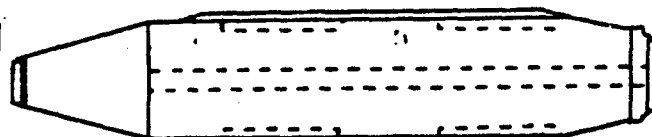
SHORT RANGE

|                     |        |
|---------------------|--------|
| NOMENCLATURE SUU-54 | NAME . |
|---------------------|--------|

**WEAPON CHARACTERISTICS**

WEIGHT- 2140 LBS LOADED  
 LENGTH- 137 IN  
 DIAMETER- 20 IN  
 GUIDANCE- None  
 CONTROLS- None  
 AUTOPILOT- None  
 PROPULSION- None  
 WARHEAD- SEE SUBMUNITIONS  
 FUZE- FMU-110/B

**PICTORIAL**



**EMPLOYMENT OPTIONS**

**AIRCRAFT**

C-111 (4)  
 F-4 (2)  
 F-16 (2)  
 A-7 (2)

**SUBMUNITIONS**

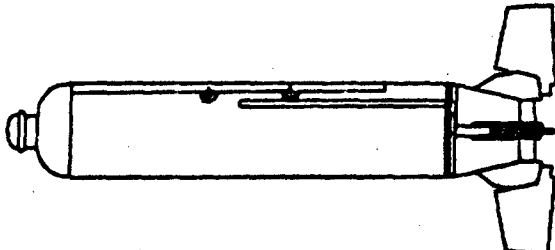
|           |        |   |   |               |
|-----------|--------|---|---|---------------|
| BLU-83/B  | (1440) | } | { | CBU-75/B      |
| BLU-86/B  | (300)  |   |   | CBU-15(V) 3/B |
| BLU-61A/B | (650)  |   |   | CBU-70/B      |
| BLU-87/B  | (90)   |   |   | CBU-80/B      |
| BLU-100   | (35)   | } | { |               |
| BLU-91/92 | (170)  |   |   |               |
| BLU-97/B  | (15)   |   |   | CBU-15(V) 3/B |

**PROGRAM MANAGEMENT**

CONTRACTOR-  
 UNIT COST-  
 STATUS-INVENTORY  
 NEXT EVENT-  
 REFERENCE-MR. PRESCOTT AV 872-4021

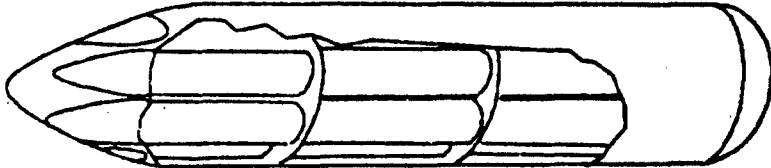
TARGETS ARMOR, AREA

SHORT RANGE

|  |  |                    |
|--|--|--------------------|
| NOMENCLATURE SUU-65/B  |  | NAME TMD           |
| WEAPON CHARACTERISTICS   |  |                    |
| WEIGHT- 950 Lbs max (215 Lbs empty)<br>LENGTH- 92 in<br>DIAMETER- 18 in<br>GUIDANCE- None<br>CONTROLS- Spin<br>AUTOPILOT- None<br>PROPULSION- None<br>WARHEAD- see submunitions<br>FUZE- Integral fuze<br>HOB 300 FT. TO 3000 FT. SETTABLE<br>FZU-39/b Prox sensor |  |                    |
| PICTORIAL  |  |                    |
|   |  |                    |
| EMPLOYMENT OPTIONS   |  |                    |
| AIRCRAFT   |  | SUBMUNITIONS       |
| F-4 (6)  |  | BLU-99/B (48)      |
| F-16 (4)   |  | BLU-101/B (9)      |
| F-111 (8)  |  | BLU-102/B (12)     |
| A-10 (4)   |  | BLU-97/B (202)     |
| A-7 (4)  |  | {BLU-91/B} (72) AT |
| B-52D (180)  |  | {BLU-92/B} (22) AP |
|  |  | SKEET (64)         |
| ENGAGEMENT SYSTEMS   |  |                    |
| None   |  |                    |
| LAUNCHER   |  |                    |
| MER/TER & MSER   |  |                    |
| PROGRAM MANAGEMENT   |  |                    |
| CONTRACTOR- HONEYWELL  |  |                    |
| UNIT COST- \$3474  |  |                    |
| STATUS- PRODUCTION   |  |                    |
| NEXT EVENT-  |  |                    |
| REFERENCE- MR. VALADE AV 872-3000  |  |                    |

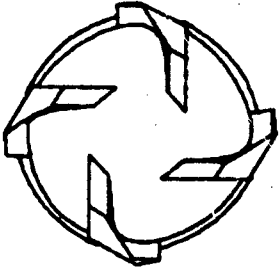
# TARGETS ARMOR

SHORT RANGE

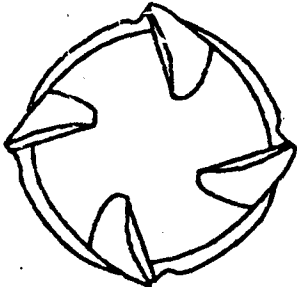
|  |               |
|--|---------------|
| NOMENCLATURE   | NAME WASP PCD |
| <b>WEAPON CHARACTERISTICS</b><br>WEIGHT- 1813 LBS<br>LENGTH- 210 IN<br>DIAMETER-22 X 24 IN<br>GUIDANCE-N/A<br>CONTROLS-N/A<br>AUTOPILOT-N/A<br>PROPULSION-N/A<br>WARHEAD-WASP Submunitions<br>FUZE-N/A   |               |
| <b>PICTORIAL</b><br>   |               |
| <b>EMPLOYMENT OPTIONS</b><br>SUBMUNITIONS<br>WASP (8)<br>AIRCRAFT<br>F-16 (2)<br>F-111 (4)<br>A-10 (2) PODS<br>F-4 (2)<br>A-7 (2)<br>NATO<br>ENGAGEMENT SYSTEMS<br>PAVE MOVER<br>INERTIAL SYSTEM<br>PROGRAM MANAGEMENT<br>CONTRACTOR-HUGHES<br>UNIT COST-\$270,200 POD LOADED WITH 8 MISSILES<br>STATUS-COMPLETED VALIDATION<br>NEXT EVENT-NEW MMV TECH 87 START<br>REFERENCE-LT COL BUCHNER AV 872-5888 |               |

# SUBMUNITIONS

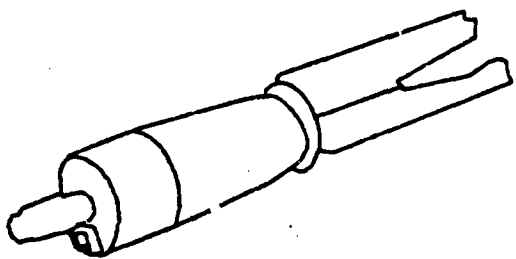
TARGETS VEHICLES, PERSONNEL

|   |              |
|---|--------------|
| NOMENCLATURE BLU-61A/B  | NAME BOMBLET |
| <b>WEAPON CHARACTERISTICS</b><br>WEIGHT-2.7 LBS<br>LENGTH-SPHERICAL<br>DIAMETER-3.5 IN<br>GUIDANCE-None<br>CONTROLS-None<br>AUTOPILOT-None<br>PROPULSION-None<br>WARHEAD-.65 H.E.<br>FUZE-M219 IMPACT |              |
| <b>PICTORIAL</b><br>  |              |
| <b>EMPLOYMENT OPTIONS</b><br>DISPENSER<br>SUU-30 (220)  |              |
| <b>PROGRAM MANAGEMENT</b><br>CONTRACTOR-<br>UNIT COST-<\$8.00<br>STATUS-INVENTORY<br>NEXT EVENT-<br>REFERENCE-JMEM 6-44   |              |

# TARGETS LIGHT MATERIAL

|   |  |      |
|---|--|------|
| NOMENCLATURE: BLU-63/B  |  | NAME |
| <b>WEAPON CHARACTERISTICS</b><br>WEIGHT- 931 LBS.<br>LENGTH- SPHERICAL<br>DIAMETER- 2 9 IN<br>GUIDANCE- None<br>CONTROLS- None<br>AUTOPILOT- None<br>PROPULSION- None<br>WARHEAD- 25 LBS HE<br>FUZE- M219 CONTACT |  |      |
| <b>PICTORIAL</b><br>  |  |      |
| <b>EMPLOYMENT OPTIONS</b><br>DISPENSER<br>SUU-30H/B (650)   |  |      |
| <b>PROGRAM MANAGEMENT</b><br>CONTRACTOR- USA<br>UNIT COST- < \$5 00<br>STATUS- INVENTORY<br>NEXT EVENT-<br>REFERENCE- JMEM 6-68   |  |      |

# TARGETS LIGHT MATERIAL, PERSONNEL

|  |  |           |
|--|--|-----------|
| NOMENCLATURE BLU-77/B  |  | NAME APAM |
| <b>WEAPON CHARACTERISTICS</b><br>WEIGHT- 0.82 LBS<br>LENGTH- 8.8 IN.<br>DIAMETER- 1.58 IN.<br>GUIDANCE- None<br>CONTROLS- None<br>AUTOPILOT- None<br>PROPULSION- None<br>WARHEAD- 0.12 LBS HE SHAPED CHARGE<br>FUZE- HARD TARGET CONTACT AND SOFT TARGET TIMED DELAY |  |           |
| <b>PICTORIAL</b><br>  |  |           |
| <b>EMPLOYMENT OPTIONS</b><br>DISPENSER<br>MK 7 MOD 3 (717)<br>(CBU-50/B)   |  |           |
| <b>PROGRAM MANAGEMENT</b><br>CONTRACTOR-<br>UNIT COST-<br>STATUS-INVENTORY<br>NEXT EVENT-<br>REFERENCE- JMEM 6-84  |  |           |



TARGETS PERSONNEL/ARMOR/AIRFIELDS

MEDIUM RANGE

NOMENCLATURE BLU-80/B

NAME BIGEYE

**WEAPON CHARACTERISTICS**

WEIGHT-2650 LBS

LENGTH-154 IN

DIAMETER- 20 IN

GUIDANCE- IIR/TV/DATA LINK

CONTROLS- TAIL

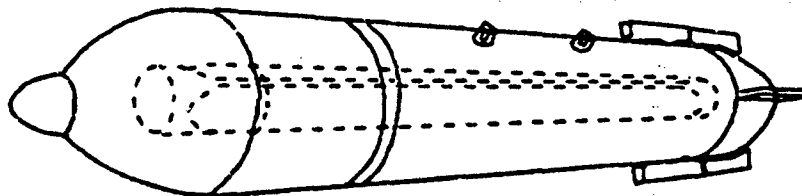
AUTOPILOT- PITCH AND YAW RATE, ROLL POSITION

PROPULSION- None

WARHEAD- SUU-54/BLU-63 (CBU-75)

FUZE- FMU-123/B

**PICTORIAL**



**EMPLOYMENT OPTIONS**

**DISPENSER**

SUU-54

**SUBMUNITIONS**

|           |        |          |
|-----------|--------|----------|
| {BLU-63/B | {1170} | } CBU-75 |
| {BLU-86/B | {370}  |          |
| BLU-97/B  | {415}  |          |
| BLU-91/B  | {170}  |          |
| BLU-92/B  | {170}  |          |
| BKEP      | {35}   |          |

**PROGRAM MANAGEMENT**

CONTRACTOR- HUGHES/ROCKWELL

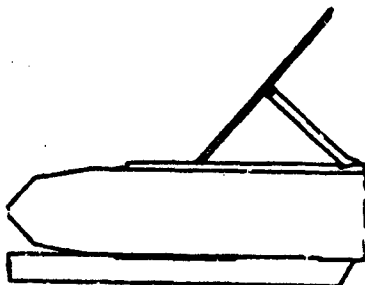
UNIT COST-TBD

STATUS- PRODUCTION DECISION?

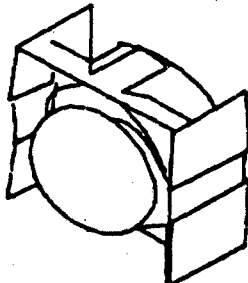
NEXT EVENT-

REFERENCE- MR. PRESCOTT 872-4261

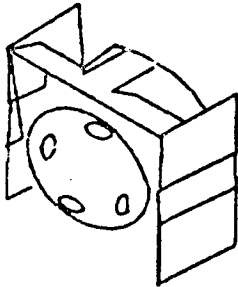
# TARGETS VEHICLES, AIRCRAFT

|   |          |      |      |
|---|----------|------|------|
| NCMENCLATURE  | BLU-81/B | NAME | STAM |
| <b>WEAPON CHARACTERISTICS</b>   |          |      |      |
| WEIGHT- 80 Lbs<br>LENGTH- 19 in<br>DIAMETER- 4.75 in<br>GUIDANCE- RF & IR<br>CONTROLS- Single fin<br>AUTOPILOT- Spin stabilized<br>PROPULSION- Boost (ejected)<br>WARHEAD- 25 M-42 SHAPED CHARGE BOMBLETS IN EACH MINE<br>FUZE- Seismic |          |      |      |
| <b>PICTORIAL</b>  |          |      |      |
|   |          |      |      |
| <b>EMPLOYMENT OPTIONS</b>   |          |      |      |
| <b>DISPENSERS</b>   |          |      |      |
| TMD (9)<br>SUU-54 (18)  |          |      |      |
| <b>LIMITATIONS</b>  |          |      |      |
| Heavy foliage may reduce effectiveness  |          |      |      |
| <b>AIRCRAFT</b>   |          |      |      |
| A-10 (2)<br>F-16 (2)<br>F-4 (2)   |          |      |      |
| <b>PROGRAM MANAGEMENT</b>   |          |      |      |
| CONTRACTOR- GENERAL DYNAMICS<br>UNIT COST-<br>STATUS- DISCONTINUED<br>NEXT EVENT-<br>REFERENCE-MR BIELE AV 872-8501   |          |      |      |


# TARGETS ARMOR

|   |          |      |       |
|---|----------|------|-------|
| NOMENCLATURE  | BLU-91/B | NAME | GATOR |
| WEAPON CHARACTERISTICS  |          |      |       |
| WEIGHT-4 31 Lbs<br>LENGTH-5 7 x 5 0 x 2 0 In<br>DIAMETER-5 7 x 5 0 x 2 0 In<br>GUIDANCE-None<br>CONTROLS-None<br>AUTOPILOT-None<br>PROPULSION-None<br>WARHEAD- Mass focus<br>FUZE- Magnetic |          |      |       |
| PICTORIAL   |          |      |       |
|   |          |      |       |
| EMPLOYMENT OPTIONS  |          |      |       |
| DISPENSER<br>SUU-64/B non-spin TMD (72)<br>WEAPON SYSTEM<br>CBU-80/B  |          |      |       |
| PROGRAM MANAGEMENT<br>CONTRACTOR-HONEYWELL<br>UNIT COST-\$197<br>STATUS-PRODUCTION<br>NEXT EVENT-<br>REFERENCE- MR VALADE AV 872-3000   |          |      |       |

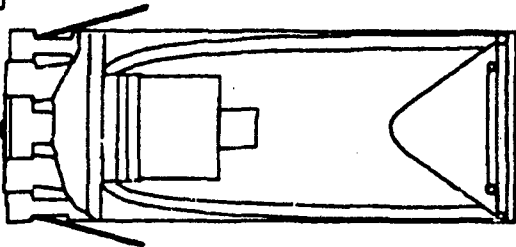
# TARGETS PERSONNEL

|   |          |      |       |
|---|----------|------|-------|
| NOMENCLATURE  | BLU-92/B | NAME | GATOR |
| WEAPON CHARACTERISTICS  |          |      |       |
| HEIGHT-3 75 Lbs<br>LENGTH-5 7 x 5 0 x 2 6 In.<br>DIAMETER-5 7 x 5 0 x 2 6 In.<br>GUIDANCE-None<br>CONTROLS-None<br>AUTOPILOT-None<br>PROPULSION-None<br>WARHEAD-FRAGMENTATION<br>FUZE-TRIP WIRE |          |      |       |
| PICTORIAL   |          |      |       |
|   |          |      |       |
| EMPLOYMENT OPTIONS  |          |      |       |
| DISPENSER<br>SUU-64/B non-spin TMD (22)   |          |      |       |
| WEAPON SYSTEM<br>CBU-89/B   |          |      |       |
| PROGRAM MANAGEMENT<br>CONTRACTOR-AEROJET GENERAL<br>UNIT COST-\$339<br>STATUS-PRODUCTION<br>NEXT EVENT-<br>REFERENCE-MR. VALADE AV 872-3500   |          |      |       |

TARGETS PERSONNEL, LIGHT MATERIAL

|   |  |             |
|---|--|-------------|
| NOMENCLATURE BLU-95/B, BLU-96/B   |  | NAME FAE II |
| <b>WEAPON CHARACTERISTICS</b>   |  |             |
| WEIGHT- 515 LBS AND 2000 LBS.<br>LENGTH- 92 IN AND 158 IN<br>DIAMETER- 15 IN AND 23 5 IN<br>GUIDANCE- None<br>CONTROLS- None<br>AUTOPILOT- None<br>PROPULSION- None<br>WARHEAD- 315 LBS AND 1420 LBS PROPYLENE OXIDE<br>FUZE- DSU-23/B TARGET DETECTION DEVICE (30-40 FT PROX)<br>FSU-9/B S&A |  |             |
| <b>PICTORIAL</b>  |  |             |
|    |  |             |
| <b>EMPLOYMENT OPTIONS</b>   |  |             |
| <b>AIRCRAFT</b><br>F-4 (4-6)<br>F-16 (4-6)<br>F-111 (6)<br>A-10 (4-6)   |  |             |
| <b>ENGAGEMENT SYSTEMS</b><br>BOMBING COMPUTER   |  |             |
| <b>LAUNCHER</b><br>MER/TER  |  |             |
| <b>PROGRAM MANAGEMENT</b><br>CONTRACTOR- NAVY<br>UNIT COST-<br>STATUS-DISCONTINUED<br>NEXT EVENT-<br>REFERENCE- JNEM 1-44   |  |             |

# TARGETS PERSONNEL , LIGHT ARMOR

|  |  |          |
|--|--|----------|
| NOMENCLATURE BLU-97/B  |  | NAME CEB |
| WEAPON CHARACTERISTICS   |  |          |
| WEIGHT- 3 4lbs<br>LENGTH- 6 6 ins after release 10 2 ins<br>DIAMETER- 2 51 In.<br>GUIDANCE- N/A<br>CONTROLS- Balancing stabilizer<br>AUTOPILOT-<br>PROPULSION-N/A<br>WARHEAD- Shaped charge, fragment with Zr. incendiary<br>FUZE- CONTACT |  |          |
| PICTORIAL  |  |          |
|    |  |          |
| EMPLOYMENT OPTIONS   |  |          |
| DISPENSER  |  |          |
| 202 CEB'S CAN BE CARRIED IN THE SUU 65/9   |  |          |
| WEAPON SYSTEM  |  |          |
| CBU-87/B   |  |          |
| PROGRAM MANAGEMENT   |  |          |
| CONTRACTOR- AEROJET GENERAL  |  |          |
| UNIT COST- \$30  |  |          |
| STATUS- PRODUCTION   |  |          |
| NEXT EVENT-  |  |          |
| REFERENCE- MAJ. COOPER AV 872-3000   |  |          |

**TARGETS HEAVY ARMOR**

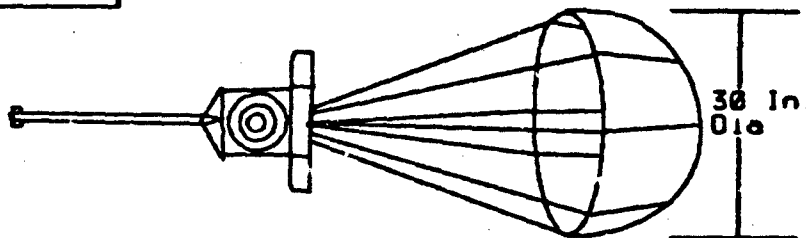
**NOMENCLATURE** BLU-99/B

**NAME** ACM

**WEAPON CHARACTERISTICS**

WEIGHT-14 Lbs  
LENGTH-7.78 In high  
DIAMETER-6.8 In wide wedge shaped  
GUIDANCE-None  
CONTROLS-None  
AUTOPILOT-None  
PROPULSION-None  
WARHEAD-Self forging frag  
FUZE-contact

**PICTORIAL**



Flat panel cruciform parachute

**EMPLOYMENT OPTIONS**

**DISPENSER**

SUU-65/B (48)

**WEAPON SYSTEM**

CBU-98/B

**PROGRAM MANAGEMENT**

CONTRACTOR-HONEYWELL

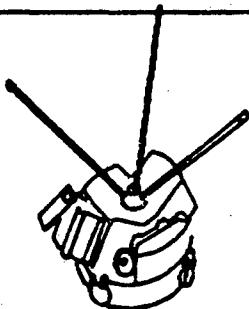
UNIT COST-\$300

STATUS-TERMINATED

NEXT EVENT-

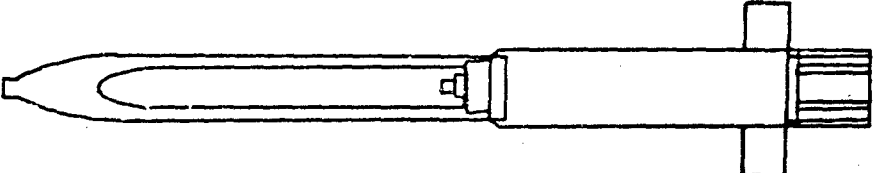
REFERENCE- AD/YA AV 872-8418

# TARGETS: ARMORED VEHICLES

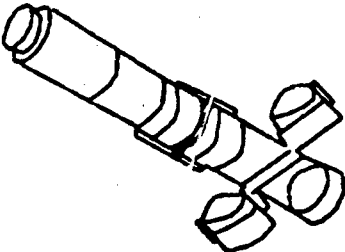
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|---|--|---------------------|------|------|
| NOMENCLATURE  |  | BLU-101/B           | NAME | ERAM |
| WEAPON CHARACTERISTICS  |  |                     |      |      |
| WEIGHT- 80 lbs.<br>LENGTH- 8.0 in<br>DIAMETER- 4 in<br>GUIDANCE- N/A<br>CONTROLS- N/A<br>AUTOPILOT- N/A<br>PROPULSION- N/A<br>WARHEAD- 4.7 in SFF<br>FUZE- IR airborne sensor |  |                     |      |      |
| PICTORIAL   |  |                     |      |      |
|    |  |                     |      |      |
| EMPLOYMENT OPTIONS  |  |                     |      |      |
| NUMBER S/M PER DISPENSER  |  | 9                   |      |      |
| NUMBER AT W/H PER S/M   |  | 2                   |      |      |
| NUMBER OF CFM PER S/M   |  | 3                   |      |      |
| AIRCRAFT  |  | WEAPON SYSTEM       |      |      |
| F-16 (4) PODS   |  | CBU-92/B            |      |      |
| F-111 (8) PODS  |  |                     |      |      |
| F-4 (4) PODS  |  |                     |      |      |
| A-10 (4) PODS   |  |                     |      |      |
| A-7 (4) PODS  |  |                     |      |      |
| DISPENSER   |  |                     |      |      |
| SUU-65/B  |  |                     |      |      |
| PROGRAM MANAGEMENT  |  |                     |      |      |
| CONTRACTOR-   |  | AVCO                |      |      |
| UNIT COST-  |  | \$1737 FY82*        |      |      |
| STATUS-   |  | TERMINATED          |      |      |
| NEXT EVENT-   |  |                     |      |      |
| REFERENCE-  |  | MR. HILL AV872-8364 |      |      |



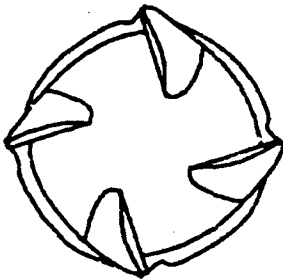
# TARGETS AIRFIELDS

|   |  |           |
|---|--|-----------|
| NOMENCLATURE: BLU-108   |  | NAME BKEP |
| <b>WEAPON CHARACTERISTICS</b><br>WEIGHT- 45 LBS.<br>LENGTH- 43 5 IN<br>DIAMETER- 3 35/4 Ø IN<br>GUIDANCE- None<br>CONTROLS- PARACHUTE RETARDED<br>AUTOPILOT- None<br>PROPULSION- BOOST ONLY<br>WARHEAD- 6 5 LBS H.E<br>FUZE- ELECTRONIC/PYROTECHNIC |  |           |
| <b>PICTORIAL</b><br>  |  |           |
| <b>EMPLOYMENT OPTIONS</b><br>DISPENSER<br>MRASM<br>JTACMS<br>TMD (8)<br>AXE<br>SAW<br>SU-54 (15)  |  |           |
| <b>PROGRAM MANAGEMENT</b><br>CONTRACTOR- USA<br>UNIT COST- \$2500<br>STATUS-<br>NEXT EVENT-<br>REFERENCE- MR. CALUDA AV872-5375   |  |           |

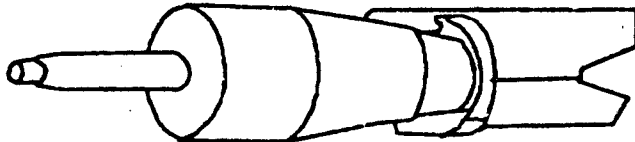
# TARGETS ARMOR

|  |  |                        |
|--|--|------------------------|
| NOMENCLATURE BLU-108   |  | NAME . SFW SUBMUNITION |
| WEAPON CHARACTERISTICS   |  |                        |
| WEIGHT- SDVA 55 LBS    SKEET 9 LBS<br>LENGTH- SDVA 31 IN    SKEET 3 75 IN THICK<br>DIAMETER- SDVA 5 25 IN    SKEET 5 0 IN<br>GUIDANCE- SDVA LASER ALT    SKEET IR (PbSe)<br>CONTROLS- SPIN STABILIZED<br>AUTOPILOT- None<br>PROPULSION- JET REACTORS<br>WARHEAD- 4 SKEET SFF PER SDVA<br>FUZE- SEEKER FUZE |  |                        |
| PICTORIAL  |  |                        |
|    |  |                        |
| EMPLOYMENT OPTIONS   |  |                        |
| AIRCRAFT   |  | SUBMUNITION            |
| A-10 (4)   |  | SDVA (10) PER TMD      |
| F-4 (4)  |  |                        |
| F-16 (4)   |  |                        |
| F-111 (8)  |  |                        |
| A-7 (6)  |  | DISPENSER              |
| F-15 (6)   |  | TMD                    |
| ENGAGEMENT SYSTEMS   |  |                        |
| BOMBING COMPUTER   |  |                        |
| PROGRAM MANAGEMENT   |  |                        |
| CONTRACTOR- AVCO   |  |                        |
| UNIT COST- \$5K PER SDVA   |  |                        |
| STATUS- PRE FSD  |  |                        |
| NEXT EVENT- FSD MAY 84   |  |                        |
| REFERENCE- MR STONE AV 872-0448  |  |                        |

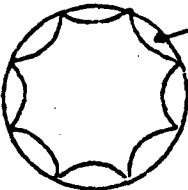
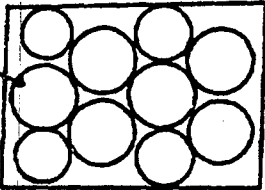
# TARGETS LIGHT MATERIAL

|   |      |
|---|------|
| NOMENCLATURE - M-74   | NAME |
| <b>WEAPON CHARACTERISTICS</b><br>WEIGHT- 1 29 LBS.<br>LENGTH- SPHERICAL<br>DIAMETER- 2.2 IN<br>GUIDANCE- None<br>CONTROLS- None<br>AUTOPILOT- None<br>PROPULSION- None<br>WARHEAD- 25 LBS HE TITANIUM<br>FUZE- M219 CONTACT |      |
| <b>PICTORIAL</b><br>  |      |
| <b>EMPLOYMENT OPTIONS</b><br>DISPENSER<br>SAW<br>CSW  |      |
| <b>PROGRAM MANAGEMENT</b><br>CONTRACTOR- USA (ARMY)<br>UNIT COST- \$5 00<br>STATUS- END PRODUCTION 1984<br>NEXT EVENT-<br>REFERENCE- ARMY   |      |

**TARGETS: ARMOR**

|  |  |                     |
|--|--|---------------------|
| <b>NOMENCLATURE</b> MK 118   |  | <b>NAME</b> ROCKEYE |
| <b>WEAPON CHARACTERISTICS</b><br>WEIGHT- 1 32 LBS<br>LENGTH- 2 1 IN<br>DIAMETER- 1 91 IN<br>GUIDANCE- None<br>CONTROLS- None<br>AUTOPILOT- None<br>PROPULSION- None<br>WARHEAD- 0 40 LBS HE COPPER SHAPED CHARGE<br>FUZE- CONTACT PIEZOELECTRIC      |  |                     |
| <b>PICTORIAL</b><br>   |  |                     |
| <b>EMPLOYMENT OPTIONS</b><br><br><b>DISPENSER</b><br>MK 7 MOD 2<br><br><b>WEAPON SYSTEM</b><br>MK 20 ROCKEYE<br><br><b>PROGRAM MANAGEMENT</b><br>CONTRACTOR- USA<br>UNIT COST- < \$10.00<br>STATUS- INVENTORY<br>NEXT EVENT-<br>REFERENCE- JMEM 6-76 |  |                     |

# TARGETS LIGHT ARMOR

|   |  |           |
|---|--|-----------|
| NOMENCLATURE  |  | NAME AMIS |
| WEAPON CHARACTERISTICS  |  |           |
| WEIGHT-14- 18 Lbs<br>LENGTH-8 9-10.4 In<br>DIAMETER-4 8-5 4 In<br>GUIDANCE-N/A<br>CONTROLS-N/A<br>AUTOPILOT-N/A<br>PROPULSION-N/A<br>WARHEAD-Self-forging frag Zr or Ti incendiary<br>FUZE- Contact, extended probe   |  |           |
| PICTORIAL   |  |           |
| <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>END VIEW</p> </div> <div style="text-align: center;"> <p>SELF FORGING FRAGS</p>  <p>SIDE VIEW</p> </div> </div> |  |           |
| EMPLOYMENT OPTIONS  |  |           |
| DISPENSERS<br>TMD<br>HAMMER<br>MRASM<br>BOSS  |  |           |
| AIRCRAFT<br>A-10<br>A-7<br>F-16   |  |           |
| NUMBER DEPENDS<br>ON DISPENSER  |  |           |
| PROGRAM MANAGEMENT  |  |           |
| CONTRACTOR- HONEYWELL/CHAMBERLIN<br>UNIT COST- \$300 FY82<br>STATUS- TERMINATED<br>NEXT EVENT-<br>REFERENCE- MR. BRIERE AV8722005   |  |           |

# TARGETS BUNKERS

## NOMENCLATURE

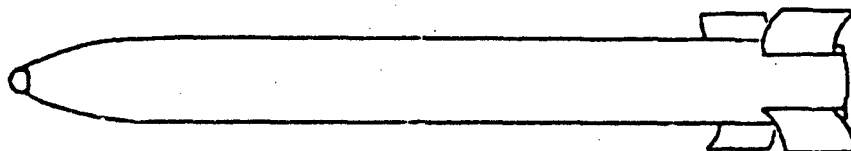
NAME BTM

## WEAPON CHARACTERISTICS

WEIGHT-359.13lbs  
LENGTH-77 in  
DIAMETER-8.3 in  
GUIDANCE- UNGUIDED SUBMUNITION  
CONTROLS-  
AUTOPILOT-None  
PROPULSION-  
WARHEAD-42.8 LBS AFX-708  
FUZE-C-level sensor

## PICTORIAL

### BUNKERED TARGET MUNITION



## EMPLOYMENT OPTIONS

### DISPENSERS

MRASM  
ALCM  
Advanced Cruise Missile  
HAMMER

### ENGAGEMENT SYSTEMS

Inertial sensors

### AIRCRAFT

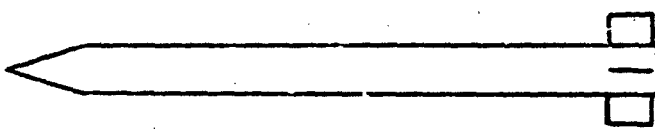
B-52 F-111 (4)  
F-16 (2)

DEPENDS ON DISPENSER


### PROGRAM MANAGEMENT

CONTRACTOR- LOCKHEED  
UNIT COST-  
STATUS-  
NEXT EVENT- TERMINATED  
REFERENCE- AL WEIMORTS AV8722005

# TARGETS ARMORED VEHICLES

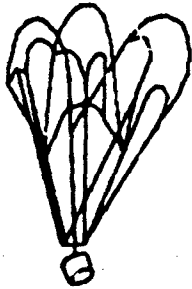
|   |          |
|---|----------|
| NOMENCLATURE  | NAME HVM |
| <b>WEAPON CHARACTERISTICS</b><br>WEIGHT-40-45 LBS.<br>LENGTH-85 IN<br>DIAMETER-4 0 IN.<br>GUIDANCE-Laser command<br>CONTROLS-THRUSTERS<br>AUTOPILOT-ROLL REFERENCE<br>PROPULSION-BOOST-SUSTAIN<br>WARHEAD-6-8 LBS. K.E. ROD<br>FUZE-None  |          |
| <b>PICTORIAL</b><br>   |          |
| <b>EMPLOYMENT OPTIONS</b><br><b>AIRCRAFT</b><br>F-16 (2) (PODS)<br>A-10 (2) (PODS)<br><b>ENGAGEMENT SYSTEM</b><br>Aircraft target acq / track sys.<br>Laser data link<br>Advanced Lantirn pod<br><b>LAUNCHER</b><br>Multi-missile pod (20 missiles)<br><b>PROGRAM MANAGEMENT</b><br>CONTRACTOR-VOUGHT<br>UNIT COST-\$6410 FY82\$ EST<br>STATUS-GROUND LAUNCH DEMO 1983<br>NEXT EVENT-<br>REFERENCE-MR. SHIREY AV8728877 |          |

# TARGETS. RUNWAYS

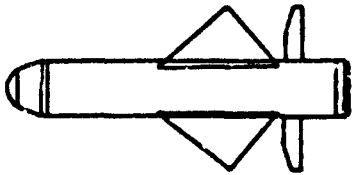
|   |  |          |
|---|--|----------|
| NOMENCLATURE  |  | NAME RIM |
| WEAPON CHARACTERISTICS  |  |          |
| WEIGHT- 25lbs<br>LENGTH- 20ins<br>DIAMETER- 4.75ins<br>GUIDANCE- N/A<br>CONTROLS- N/A<br>AUTOPILOT- N/A<br>PROPULSION- N/A<br>WARHEAD- 4 5lb SHAPED CHARGE DUAL STAGE<br>FUZE- RANDOM DELAY |  |          |
| PICTORIAL   |  |          |
|   |  |          |
| EMPLOYMENT OPTIONS  |  |          |
| DISPENSER   |  |          |
| LAD--48 SUBMUNITIONS<br>HAMMER (TBU)<br>MRASH   |  |          |
| PROGRAM MANAGEMENT  |  |          |
| CONTRACTOR- AEROJET GENERAL<br>UNIT COST- \$525 FY82<br>STATUS- TERMINATED<br>NEXT EVENT-<br>REFERENCE-   |  |          |



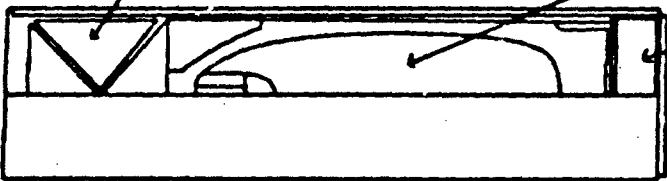
# TARGETS ARMOR

|  |             |
|--|-------------|
| NOMENCLATURE   | NAME SADARM |
| WEAPON CHARACTERISTICS   |             |
| WEIGHT-TBD LESS THAN 10 LBS<br>LENGTH-TBD<br>DIAMETER- 5 OR 8 IN<br>GUIDANCE- IR OR MMW<br>CONTROLS- STABILIZING PARACHUTE<br>AUTOPILOT-None<br>PROPULSION-None<br>WARHEAD- SFF<br>FUZE- SENSOR FUZE |             |
| PICTORIAL  |             |
|    |             |
| EMPLOYMENT OPTIONS   |             |
| DISPENSER<br>SUU-65/B (40)<br>SAW  |             |
| PROGRAM MANAGEMENT<br>CONTRACTOR-HONEYWELL<br>UNIT COST-<br>STATUS-TERMINATED<br>NEXT EVENT-<br>REFERENCE- ARMY MLRS OFFICE  |             |

# TARGETS ARMOR

|  |  |            |
|--|--|------------|
| NOMENCLATURE   |  | NAME: TGSM |
| WEAPON CHARACTERISTICS   |  |            |
| WEIGHT- 11 KG<br>LENGTH- 63 CM.<br>DIAMETER- 101 MM<br>GUIDANCE- IR TWO COLOR<br>CONTROLS- TAIL ELECTRICAL<br>AUTOPILOT- 2 AXIS ACCELERATION<br>PROPULSION- NONE<br>WARHEAD- 2 KG SHAPED CHARGE<br>FUZE- CONTACT |  |            |
| PICTORIAL  |  |            |
|    |  |            |
| EMPLOYMENT OPTIONS   |  |            |
| DISPENSER<br>TMD<br>SAW  |  |            |
| PROGRAM MANAGEMENT<br>CONTRACTOR- GENERAL DYNAMICS<br>UNIT COST- \$18,000<br>STATUS-<br>NEXT EVENT-<br>REFERENCE-  |  |            |

# TARGETS AIRFIELDS

|  |  |          |
|--|--|----------|
| NOMENCLATURE   |  | NAME VAM |
| <b>WEAPON CHARACTERISTICS</b><br>WEIGHT-22-28 LBS<br>LENGTH-14-15 IN.<br>DIAMETER-4 5-5 Ø IN<br>GUIDANCE-None<br>CONTROLS-None<br>AUTOPILOT-None<br>PROPULSION-VELOCITY AUGMENTOR<br>WARHEAD-FORWARD CHARGE ~2 5 LBS FOLLOW THROUGH ~4 5 LBS<br>FUZE-IMPACT DELAY  |  |          |
| <b>PICTORIAL</b> <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;"> <p>FORWARD CHARGE</p>  </div> <div style="text-align: center;"> <p>FOLLOW THROUGH CHARGE</p> </div> <div style="text-align: center;"> <p>VELOCITY AUGMENTOR</p> </div> </div> |  |          |
| <b>EMPLOYMENT OPTIONS</b><br>DISPENSER<br>MRASH (38)<br>HAMMER (TBD)   |  |          |
| <b>PROGRAM MANAGEMENT</b><br>CONTRACTOR- LAWRENCE LIVERMORE<br>UNIT COST-<br>STATUS-<br>NEXT EVENT-<br>REFERENCE-M CALUDA AVB725375  |  |          |

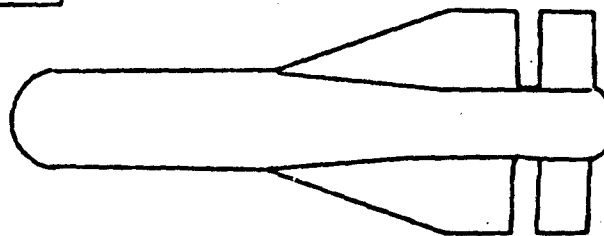
# TARGETS ARMOR

|              |                   |
|--------------|-------------------|
| NOMENCLATURE | NAME WASP-MISSILE |
|--------------|-------------------|

## WEAPON CHARACTERISTICS

WEIGHT- 126 Lbs.  
 LENGTH- 66 in  
 DIAMETER- 8 in  
 GUIDANCE- MMW  
 CONTROLS-  
 AUTOPILOT-BIAS PURSUIT  
 PROPULSION- BOOST SUSTAIN  
 WARHEAD- 20 Lbs. SHAPED CHARGE  
 FUZE- CONTACT

## PICTORIAL



## EMPLOYMENT OPTIONS

### AIRCRAFT (PRIMARY)

F-16 (2) A-7 (2)  
 F-111 (4) F-4 (2) PODS  
 A-10 (2)  
 NATO

### LAUNCH MODES

BLIND LAUNCH  
 CLOSE AIR SUPPORT

### ENGAGEMENT SYSTEMS

PAVE MOVER  
 INERTIAL SYSTEM

### LAUNCHER

WASP POD (PLYON MOUNTED)  
 22 x 24 in.  
 210 in long 8 MSLS LOAD

### PROGRAM MANAGEMENT

CONTRACTOR-HUGHES  
 UNIT COST- \$32,500 FY82 OVE MSL  
 STATUS-COMPLETED VALIDATION  
 NEXT EVENT-TERMINATED  
 REFERENCE-